

Plug-in Cutting / Coating Software



Cut / Coat Simply and Directly



Reference Guide

MIMAKI ENGINEERING CO., LTD.

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Foreword

Thank you very much for purchasing a product of MIMAKI.

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

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New Functions of FineCut/Coat9

Direct output from FineCut to a laser engraving machines (Trotec Speedy Series, Gravotech LS Series). (2 P.4-16, P.4-22)

You can output the cutting data from FineCut to the Trotec Speedy Series or the Gravotech LS Series and then perform laser cutting. The compatible models are as follows.

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

Automatic register mark detection using a camera with the laser engraving machine, Gravotech LS series. (2 P.4-23)

With the Gravotech LS series, you can automatically detect register marks using a camera.

Supports digital coating machines (P.4-29)

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

Supports the CFX series high-end flatbed cutting plotter.

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

System and software

The following conditions are required to use FineCut/Coat9.

	Item	Requirement
Computer		IBM PC or compatible mounting Pentium processor or compatible CPU
os		Microsoft [®] Windows [®] 10 Microsoft [®] Windows [®] 11
М	onitor	1024 x 768 pixels, or higher resolution is required
Software		CorelDRAW [®] Graphics Suite: 2020 (64-bit), 2021, 2022, 2023, 2024, 2025 CorelDRAW [®] Technical Suite: 2020 (64-bit), 2021, 2022, 2023, 2024, 2025
MIMAKI product		MIMAKI CG series (CG-45 or later), MIMAKI CF series, MIMAKI CF2 series, MIMAKI DC series, MIMAKI CF3 series, MIMAKI CJV30 series, MIMAKI CFX series, MIMAKI TPC, MIMAKI CJV300/150 series, MIMAKI CJV300 Plus series, MIMAKI CJV330 series, MIMAKI CJV200 series, MIMAKI CFL-605RT, MIMAKI UCJV300/150 series, MIMAKI CF22-1225, MIMAKI UCJV330 series
		Trotec Speedy Series (100/300/360/400)
	Others	Gravotech LS series: LS100IQ, LS100Ex, LS100Ex_Energy, LS900, LS900XP, LS900Energy, LS900Edge, LS1000XP, LS_Energy8
Digital coating machine	MIMAKI product	DCF-605PU
Online Infor	mation function	As described in "OS" above
	MIMAKI product Plotter	Serial connection (crossing cable) or USB connection or LAN connection
		Trotec Speedy Series: USB connection (virtual COM port) It is necessary to install virtual COM port driver.
Connection	Others laser engraving machines	 Gravotech LS Series: USB connection It is necessary to install the Gravotech L-Solution driver. When performing register mark detection with the camera: A USB connection for the camera is required separately from the USB connection for data. Camera driver installation is required.
	MIMAKI product Digital coating machine	LAN connection
C	others	Compliant with the operation environment of CorelDRAW [®] used

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

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

How to Read This Manual

Notations

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

Symbols

(Important!)	Indicates cautions or procedures you must perform.
1 I I I I I I I I I I I I I I I I I I I	Describes useful information.
	 Indicates a page of related contents for reference.

FineCut/Coat menu

FineCut/Coat tool menu is displayed as follows on CoreIDRAW. If "DCF-605PU (Digital coating machine)" is selected, [FineCoat] is displayed, and if anything else is selected, [FineCut] is displayed.

In this manual, it is called "FineCut Command Bars" or "FineCoat Command Bars".





FineCoat Command Bars

DCF-605PU (Digital coating machine)

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

Supports the CFX series high-end flatbed cutting plotter.

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

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CHAPTER 1 Preparation



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

1-2
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1-8
1-9
1-10
1-10

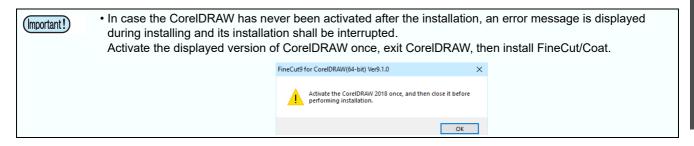
Setting of Plotter

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

Plotter		Item	Setting
CG-EX series	O	RIGIN SELECT	LOW RIGHT
CG-FX series,	O	RIGIN SELECT	LOW RIGHT
CG-FXII series, CG-FXII Plus series,		MARK DETECT	1Pt
CG-75ML,	gister	DIST REVI	OFF
CG-60SR, CG-SRII,	Register Mark	offset A	0.0mm
CG-SRIII series,	(Setting	offset B	0.0mm
CG-AR series	ing	COPIES A (\uparrow)	1 (sheet)
		COPIES B (\leftarrow)	1 (sheet)
	R	DTATION	OFF
	PF	RIORITY	HOST
CJV30 series, TPC,	Reg	MARK DETECT	1Pt
CJV300/150 series,	ister I	OFFSET Y (←)	0.0mm
CJV300 Plus series, CJV330 series,	Mark \$	OFFSET X (↑)	0.0mm
CJV200 series, UCJV300/150 series	Register Mark Setting	COPIES Y (\leftarrow)	1 (sheet)
UCJV330 Series Set all for each tool. 	3	COPIES X ([↑])	1 (sheet)
CF Series	CI	MD SW	Enable
	OI	RIGIN	LOW-LEFT
	CI	RCLE 0 CORRECTION	Enter an angle of positive number
CF2 series,	CI	MD SW	Enable
DC series, CF3 series, CFL-605RT,		RIGIN	LOW-LEFT (LOW-RIGHT for CF3, CFX)
		RCLE 0 CORRECTION	Enter an angle of positive number
CF22-1225	ΕX	(PAND	OFF
_		ARK DETECT Register mark detection cannot be set unless the expand is set to OFF.	1pt
		/ULTI-PASS>-CUT START	OFF

Installation of FineCut/Coat

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



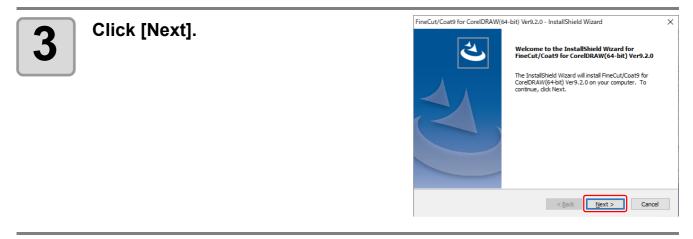
1 Download the FineCut/Coat9 installer from the official MIMAKI website (<u>https://mimaki.com/</u>).

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



Double-click the downloaded file.

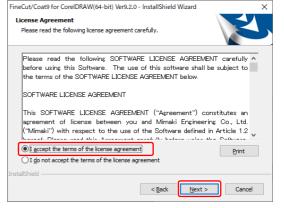
- The file is expanded and the FineCut/Coat9 installer menu is launched.
- If you close the FineCut/Coat9 installer menu.
- (1) Open the "FineCut_Coat 9 **" folder on the desktop.
- (2) Double-click "CDMenu.exe" to launch it.





Check the Software License Agreement.

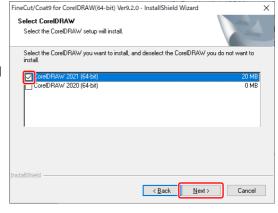
• Read through the agreement, click [I accept the terms in the license agreement] to consent the agreement, and click [Next].





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

• Uncheck the CoreIDRAW not to be installed on.





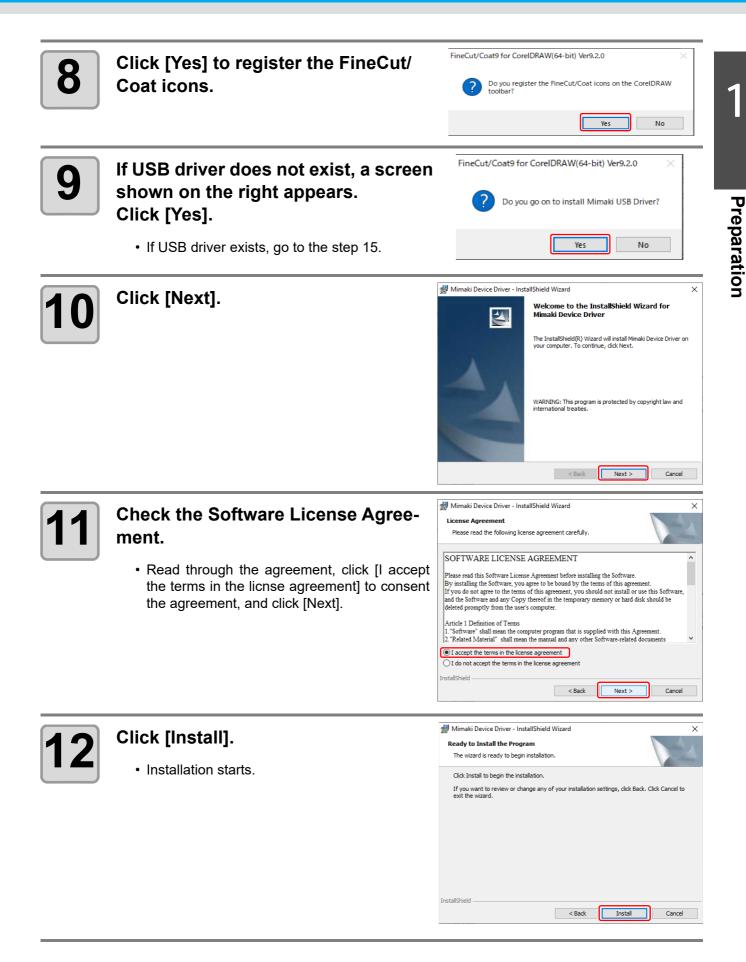
Click [Install].

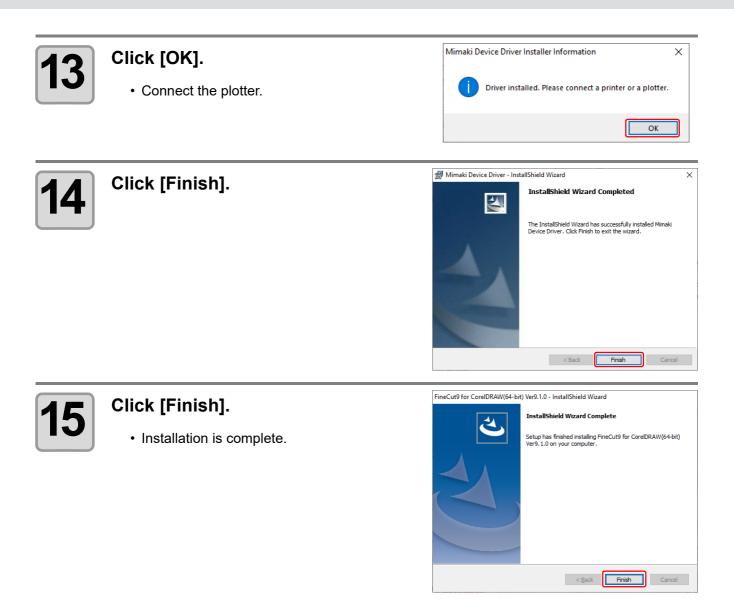
Installation starts.

FineCut/Coat9 for CorelDRAW(64-bit) Ver9.	2.0 InstallShield Missed	;
	.2.0 - Instalionelo Wizaro	
Ready to Install the Program The wizard is ready to begin installation.		Z
Click Install to begin the installation.		
If you want to review or change any of yo exit the wizard.	our installation settings, dick Back. Clid	Cancel to
nstallShield		
	< <u>B</u> ack <u>I</u> nstall	Cancel

< Back Finish Cancel







Next, go to "Online Information". (@P.1-7)

Online Information

If a new information about FineCut/Coat is found, the following screen appears when using FineCut/Coat first.

Click necessary items and check the information. (@P.7-64 for details)

۶	FineCut Onli	ine Information		-		Х
	Check	Release Date 2019-10-01 2019-10-01	Topics FineCut 9.1.0 released Supported CoreIDRAW 2019			
	-Description: - Details: URL:					
					Close	

Next, go to "Connecting to the Plotter". (@P.1-8)

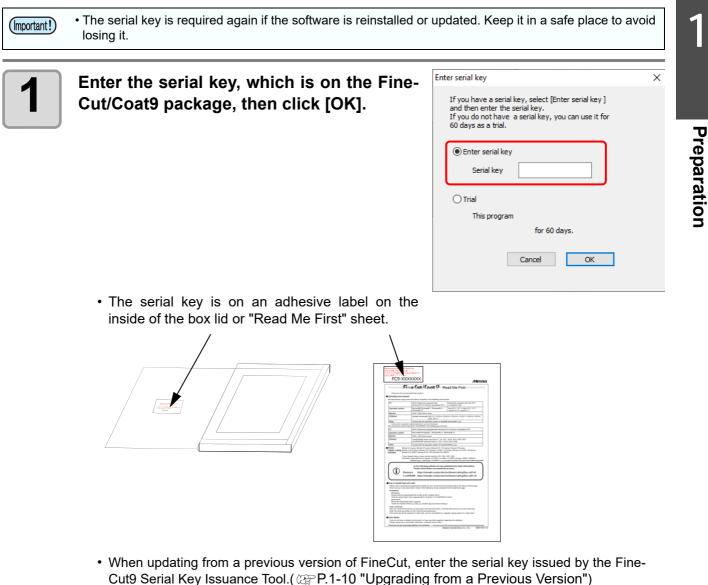
Connecting to the Plotter

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

(Important!)	• Set the same values for Plotter and Communication as the set If the entered values differ from the settings on the plotter, ob	
1	When using FineCut/Coat first after the installation, the screen shown on the right appears.	Setup × FineCut setting is started. This must be set correctly to send output data to the plotter. Do you start setting now.
	Click [Setting].	Setup Cancel
2	 Select the plotter used. Select the plotter used on [Model]. Set the other items as needed. (P.7-4) 	Plotter / User Setup Plotter Communication Plot Dialog Alert Display Other Model: CF2 Senes Command: MGL-IIc(recommended) Step Size: 0.025mm Approximate Type: Spline Output Condition Setup
		Serial key: OK Cancel
3	Click [Communication] tab and select the port of the plotter.	Plotter / User Setup Plotte Communication Plot Dialog Alert Display Other Plotter communication port: ③ Serial COM1 V
	 After selecting the port, click [Connection test] to check the plotter is correctly connected. (P.7-28 for details) 	O USB Not found O LAN Not found O LAN Not found IP Address: 10.10.100.100 Baud Rate: 9600bps Data Length: 8bits Parity: None Handshake: Hardwire
		Mimciki fille Cut 9 Serial key: OK Cancel
	Click [OK] to save the setting.	
		Plotter Communication Plot Dialog Alert Display Other Plotter communication port: © Serial O USB LAN IP Address: Data Length: Baud Rate: 9600bps Data Length: Bbits Parity: None Handshake: Hardwire

Entering the Serial Key

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



• To use the software in trial mode, select [Trial] and click [OK]. The software can be used in trial mode for up to 60 days.

Preparation is now complete.

Upgrading from a Previous Version

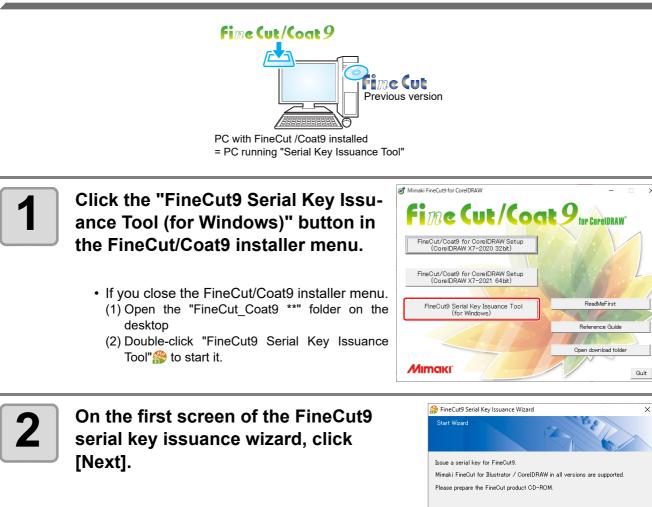
In order to upgrade FineCut old version (FineCut 8), it is necessary to issue a serial key with "FineCut9 Serial Key Issue Tool".

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

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

Issue a serial key.

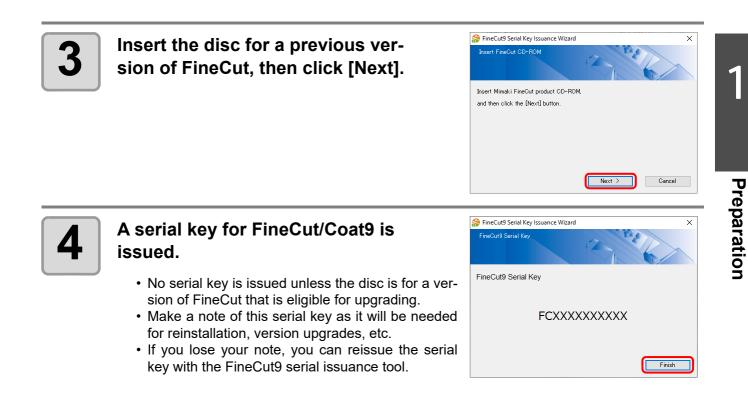
When a CD-ROM drive is installed in the computer to be upgraded to FineCut/Coat9



X

Cancel

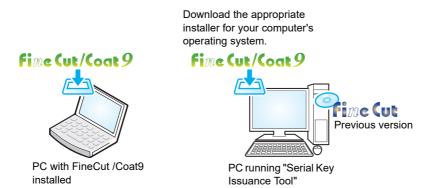
Next





Enter the issued serial key according to "Entering the Serial Key (P.1-9)".

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



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

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



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



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

• The file is expanded and the Finecut/Coat9 installer menu is launched.



After that, refer to Step 1 (P.1-10) to Step 4 (P.1-11) of "Issue a serial key.".

CHAPTER 2 Basic Cutting



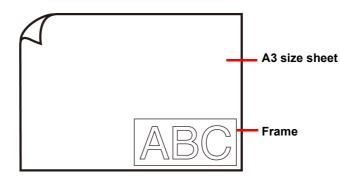
This section describes basic procedures of cutting.

Basic Cutting	
Basic cutting	
Fill and Stroke of an Object	

Basic Cutting

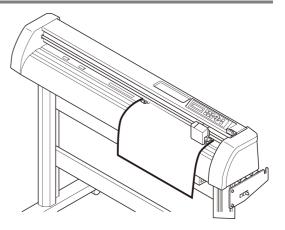
Basic cutting

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.

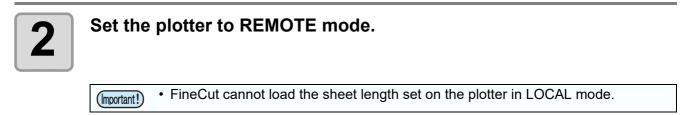




Load a A3 size sheet into the plotter so that it is wider than it is tall.



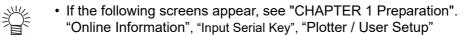
• For more information regarding sheet loading or the plotter operation, refer to the Operation Manual supplied with the main unit.

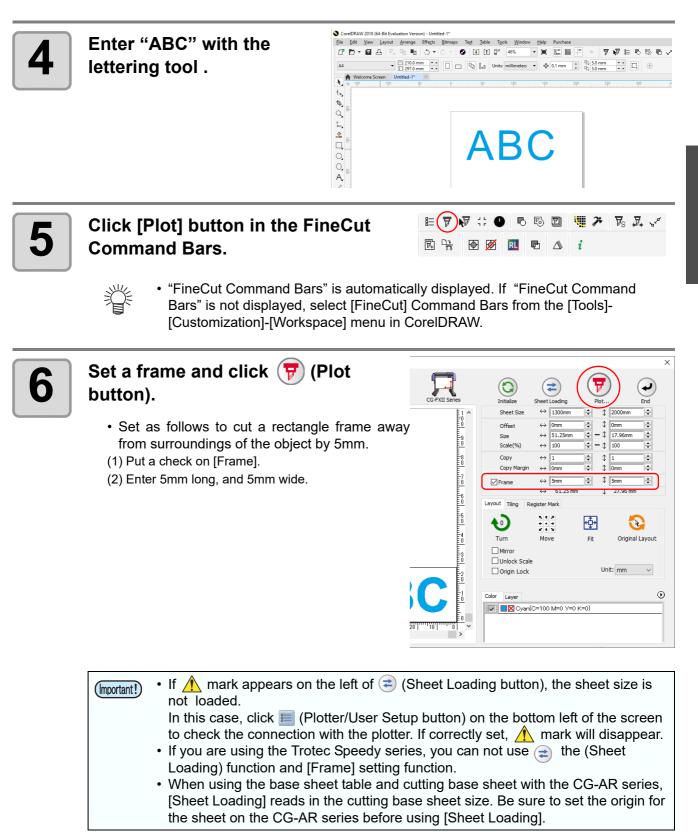




Start CoreIDRAW and create a new document.

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





2



Set plot condition, and click [Plot].

Plot Out	
Plot Condition	Plot

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

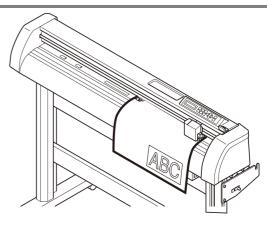
• Match the conditions to the media on the plotter. If the setting is unmatched, the object will not be cut normally.



The object is cut.

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

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





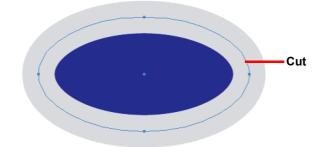
After cutting, click 🕑 (End button).

"Plot" screen is closed.

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 [Wireframe] from the [View] menu of CorelDRAW.



Path is...

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

The outline of a graphic object also consists of a path. The outline of a straight line or a rectangle created by CorelDRAW 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.
 - (Compression of the terms of terms

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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 signpanels.

Work Flow	3-2
Making a Frame (Cutting Line)	3-4
Making Register Marks	3-5
Cutting an Object	3-27

Work Flow

• Fit the communication setting of FineCu If the FineCut/Coat settings differ from to normally. (P.7-27)	t to the setting of the plotter connected. ne settings of the plotter, the object will not be output
1 Make an object.	Make an object for printing on CorelDRAW.
2 Make a frame (cutting line). (Import P.3-4)	Make a frame (cutting line) fitting to the object on FineCut/Coat.
3 Make register marks. (№ P.3-5)	Make register marks on FineCut/ Coat. Various kinds of register marks can be made depending on the plotters used.
Cut the object. (# P.3-26)	Set the printed media on the plotter, and cut it. You can cut various media depending on the use.

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

Model	Function	Reference page	
CG-EX series	Detect register marks, and cutting	P.3-26	
CG-FX, CG-FXII, CG-FXII	Cutting one image continuously	P.3-27	
Plus, CG-75ML, CG-60SR, CG-SRII, CG-SRIII, CG-AR,	Cutting multiple images continuously (CG-75ML only)	P.3-31	
CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series	Cutting an outline and a base sheet cutline at a time (except CG-FX, CG-FXII series, CG-FXII Plus series)	P.3-33	
CF2, DC, CF3 series	Detect register marks, and cutting	P.3-35	
	Cutting with Mark Separation	P.3-38	
	Cutting from the reverse side	P.3-40	
CFL-605RT	Detect register marks, and cutting	P.3-43	
	Cutting with Mark Separation	P.3-46	
	Cutting from the reverse side	P.3-48	
CF22-1225	Detect register marks, and cutting	P.3-59	
	Cutting with Mark Separation	P.3-61	
	Cutting from the reverse side	P.3-63	
CFX series (excluding free	Detect register marks, and cutting	P.3-35	
register marks)	Cutting with Mark Separation	P.3-38	
	Cutting from the reverse side	P.3-40	
CFX series (free register marks)	Detect register marks, and cutting	P.3-71	
CFX series (teaching cut)	ning cut) Teaching cut		
CFX series (round register marks)			
Trotec Speedy Series	eedy Series Detect register marks, and cutting		
Gravotech LS series	ravotech LS series Detect register marks, and cutting		
DCF-605PU (Digital coating machine) Detect register marks, and coating		P.3-80	

Creating Register Marks

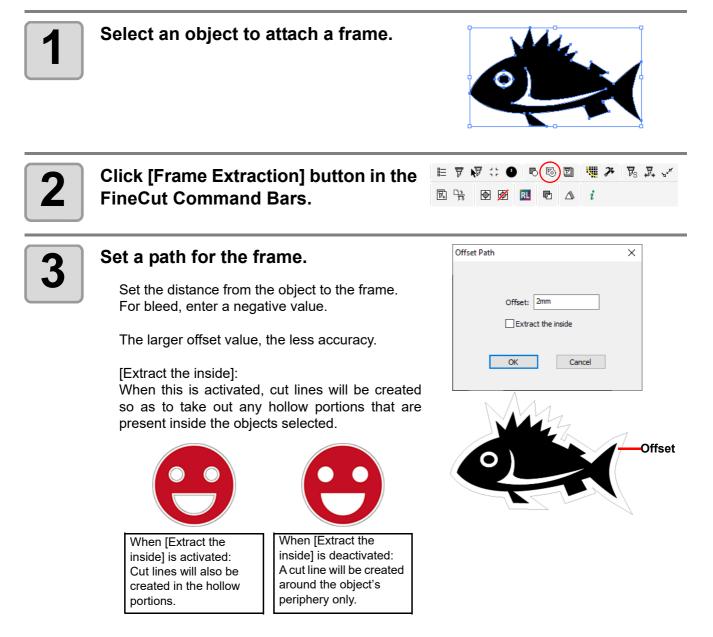
3

• register marks created with FineCut/Coat9 Ver2.4 or later cannot be recognized with Ver2.3.1 or earlier. If you want to recognize register marks with FineCut/Coat9 Ver2.3.1 or earlier, please create them

with Ver2.3.1 or earlier. (@ P.8-5)

Making a Frame (Cutting Line)

Specify offset to make cutting line automatically.





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.5-12)
 The data in this layer is set as non-printed, since it is used as cutting data.
- The data in this layer is set as non-printed, since it is used as cutting data To print this data, enable "Printable" on CorelDRAW "Layer properties".

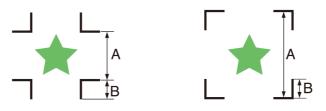
Making Register Marks

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.

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

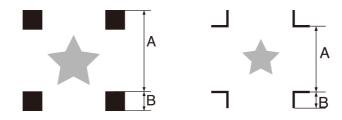
● TPC, CG, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series



Α	200 max.	500 max.	1000 max.	2000 max.	2001 min.		
В	4 min.	8 min.	15 min.	25 min.	35 to 40		
	(mm)						

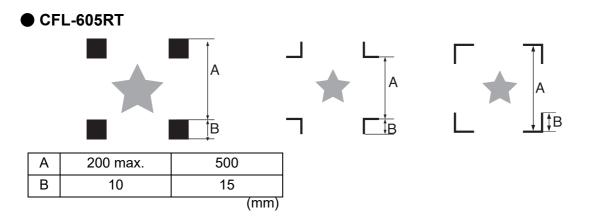
• For CG-SR III, CG-AR series make the register mark size (B) more than ten times the line width the register mark.

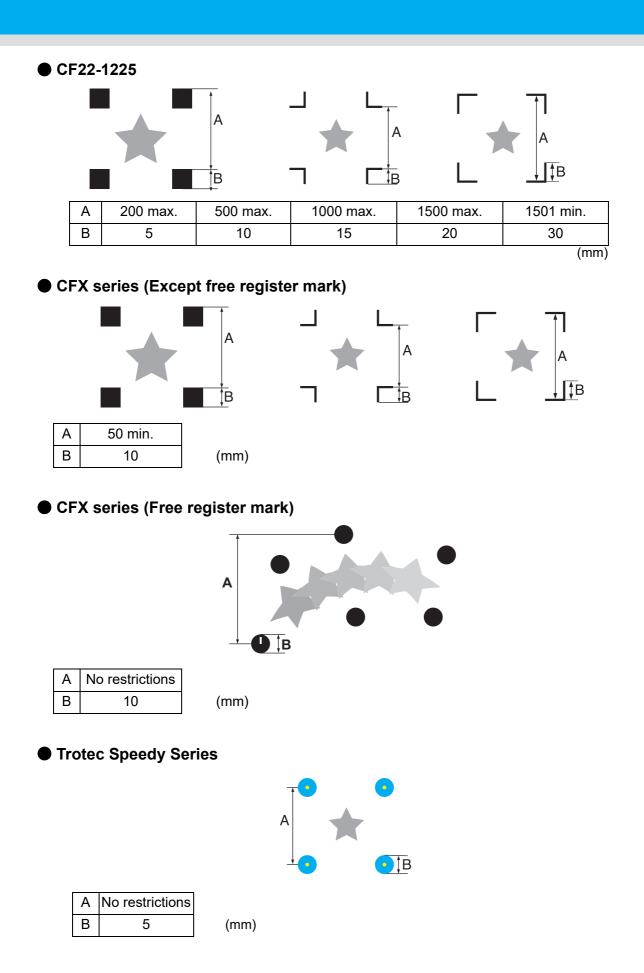
• CF2, DC, CF3 series



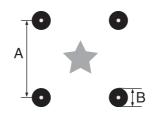
Α	200 max.	500 max.	1000 max.	1500 max.	1501 min.
В	5	10	15	20	30

(mm)





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



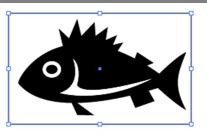
А	No restrictions	
В	5	(r

(mm)

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



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





Click [Register Mark Creation...] button in the FineCut Command Bars.





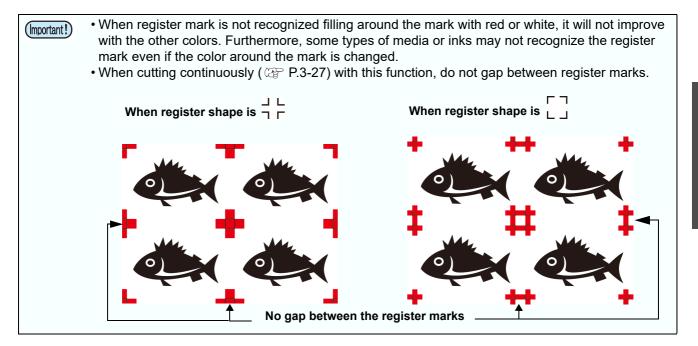
Set the shape or others for the register mark.

• Click [OK] after setting.

Register Mark Creation		
Mark Shape		
Mark Size (5-40mm) □ → □ → □ Recommend Mark Size: 6mm		
Line Width (0.5-2mm)		
Leave a rectangle as the cutting line Put a print direction mark		
Fill around the register mark		
Add the pattern information		
Direction \leftrightarrow \updownarrow		
Count 2		
OK Cancel		

Item	Description
Mark Shape	 Select the shape of the register mark. When using the mark also for CF series, select ¹/_n.
Mark Size	Set the size of the register mark.
Recommend Mark Size	Displays a recommended register mark size.
Line Width	Set the line width of the register mark. • When using the mark also for CF series, select "1 mm".
Leave a rectangle as the cutting line	Cuts the rectangle created in step 1.
Add the Mark	 mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction. If you set the intermediate register mark, you cannot add a print direction mark.

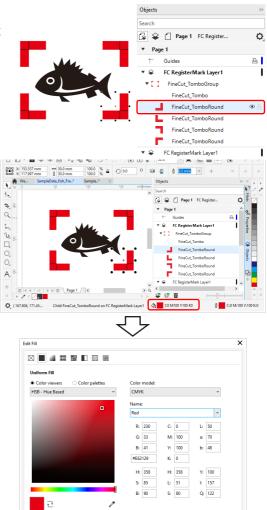
Item	Description
Fill around the register mark	Fills around the register mark with red spot color. When register mark is not recognized on the media of other than white, the mark can be recognized with this function.
	• Recommend color to fill around is red (default) or white. To print with white, refer to the RIP manual. Generally allocate red spot color to white and print.



Item	Description
Add the pattern information (Only for CG-75ML)	Adds a bar-code shaped pattern information with register mark. With the pattern information and the register mark reading function, you can cut the outline of multiple different sticker at one time.
Intermediate Registration Marks (Only for CG-SRIII, CG-AR, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series)	Adds the intermediate register mark. You can cut a long outline with higher accuracy by the intermediate register mark and the register reading function of CG-SR III, CG-AR, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series. • When an intermediate register mark is added, ID cut output (P.5-16) can not be done.
Direction	Set the split direction of the intermediate register mark. $()$
Count	Set the number of splits of the intermediate register mark. Specify the number of splits within [2 to 10].

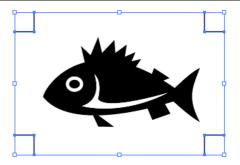
• When you set the intermediate register mark, set the number of splits of the intermediate register mark so that spaces between the register marks may become more than 50mm.

- A color of the register mark can be changed as follows.
 - (1) Select [Tools] [Object Manager] or [Windows] [Dockers] [Object Manager (Objects)] in the CorelDRAW.
 - (2) Click on the [FineCut_TomboRound] in the [Object Manager (Objects)] shown at the right of CoreIDRAW.
 - (3) Doubleclick the "Fill Color " at buttom right of CorelDRAW and change the color in the [Uniform Fill] Window. Repeat on to other three registermarks.





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



OK Cancel

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• 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.

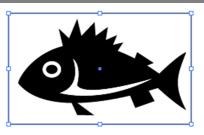
C Fill winding Overprint fill



CF2, DC, CF3 series



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



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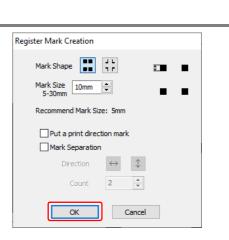


3

Click [Register Mark Creation] button in the FineCut Command Bars.

Set the size of register mark.

• Click [OK] after setting.



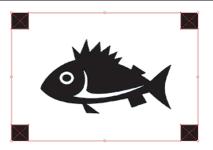
Item	Description
Mark Shape	Select the shape of the register mark.
	• When using the mark also for CG series, select $\begin{bmatrix} 1 & L \\ r & r \end{bmatrix}$.
Mark Size	Set the size of the register mark. Set the larger size than [Recommend Mark Size] below.
Recommend Mark Size	Displays a recommended register mark size.
Put a print direction mark	▼ mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction.

Item	Description
Mark Separation	Cuts each separated area. Use it when an object is too large to fit in the cut area. (P.3-38 for cutting) • For the figure below, it is cut in 3 times of 1 to 3. 3 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

• 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.



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



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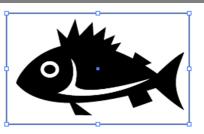
• Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]... Please note that FineCut recognizes only one set of register mark. When two or more

register mark sets are created, set unnecessary register mark undisplayed.

CFL-605RT



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





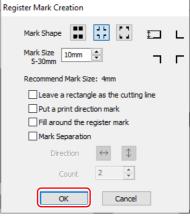
Click [Register Mark Creation] button in the FineCut Command Bars.



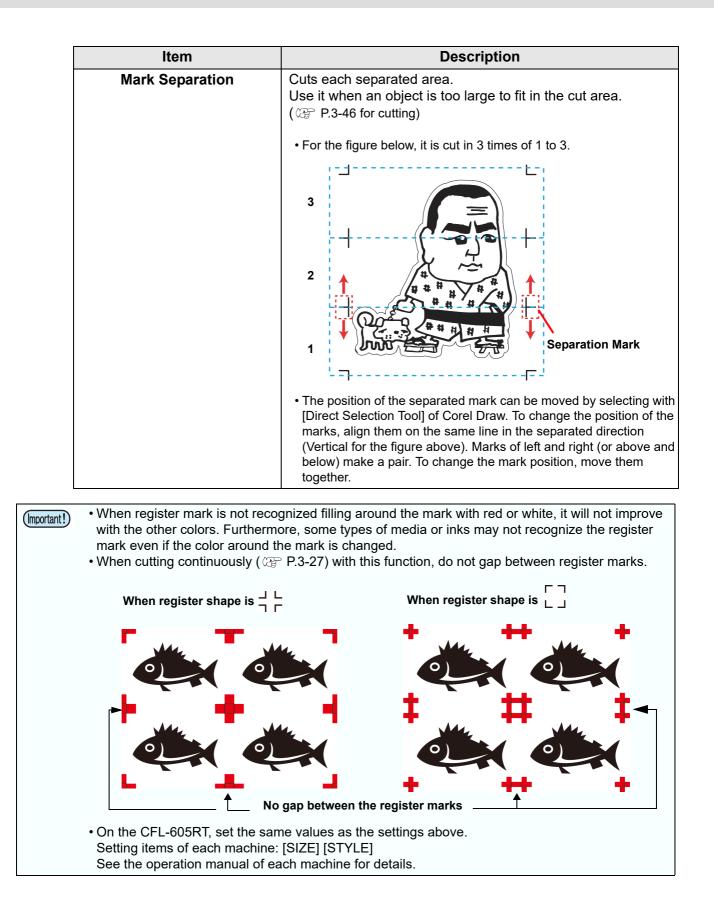


Set the shape or others for the register mark.

• Click [OK] after setting.



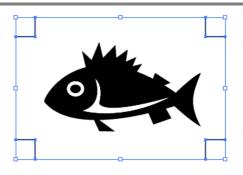
Item	Description
Mark Shape	Select the shape of the register mark. • When using the mark also for CG or CF series, select $\begin{bmatrix} a & b \\ \gamma & r \end{bmatrix}$.
Mark Size	Set the size of the register mark. Set the larger size than [Recommend Mark Size] below.
Recommend Mark Size	Displays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



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



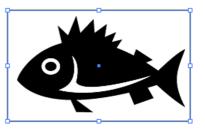
• Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]...

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.

CF22-1225



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





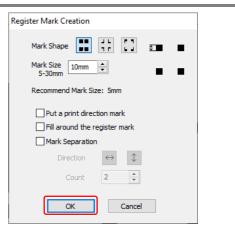
Click [Register Mark Creation] button in the FineCut Command Bars.





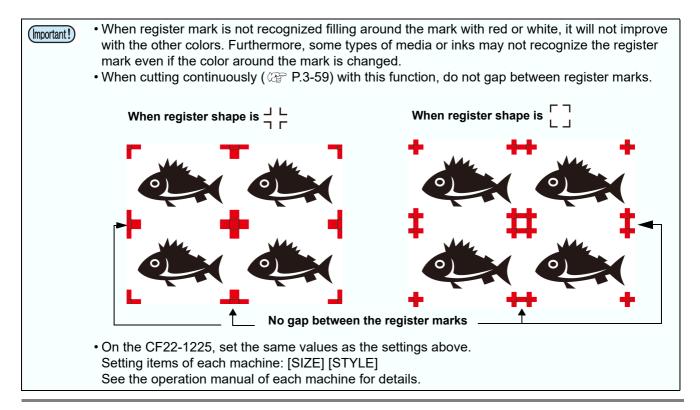
Set the shape or others for the register mark.

• Click [OK] after setting.

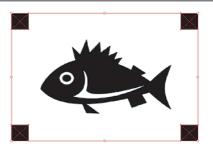


Item	Description
Mark Shape	 Select the shape of the register mark. When using the mark also for CG or CF series, select
Mark Size	Set the size of the register mark. Set the larger size than [Recommend Mark Size] below.
Recommend Mark Size	Displays a recommended register mark size.
Put a print direction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

Item	Description
Mark Separation	Cuts each separated area. Use it when an object is too large to fit in the cut area. (@P P.3-61 for cutting) • For the figure below, it is cut in 3 times of 1 to 3. 3 3 4 5 5 5 5 5 5 5 5 5 5 7 5 5 7 5 7 5 7 5







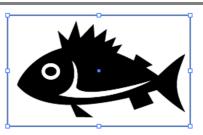


• Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]... Please note that FineCut recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.

CFX series (excluding free register marks)

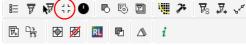


Enclose an object with a rectangle on the position for making a register mark.





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



Set the shape or others for the register mark.

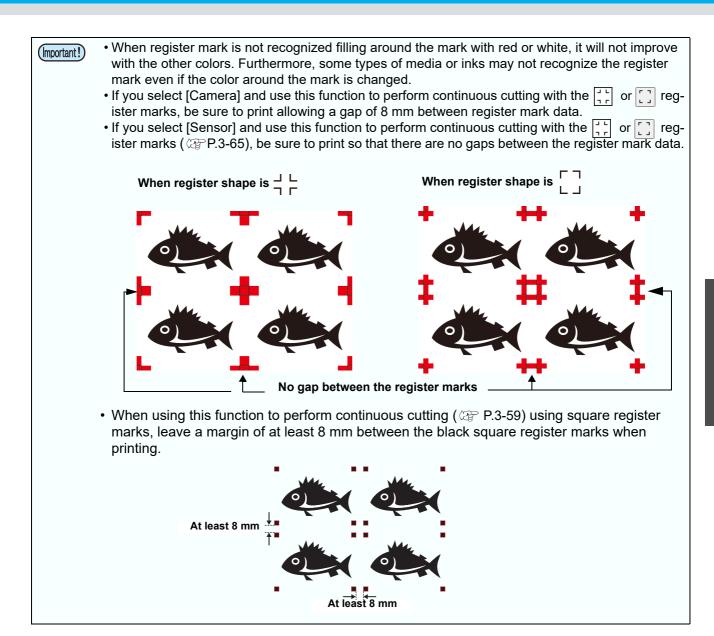
- Click [OK] after setting.
- If you wish to use free register marks, refer to P.5-34 "Cutting Using Other Non-Mimaki Register Marks (CFX series)".

Register Mark Creation	\times
Mark Shape	‡
Fill around the register mark	
Camera	
Sensor	
Mark Separation	
Direction \leftrightarrow $($	
Count 2	
Cancel	ОК

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

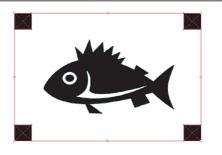
3

Item	Description	
Item Mark Separation	Cuts each separated area. Use it when an object is too large to fit in the cut area. (@P P.3-61 for cutting) • For the figure below, it is cut in 3 times of 1 to 3.	
	 The position of the separated mark can be moved by selecting with [Pick Tool] of CoreIDRAW. 	
	To change the position of the marks, align them on the same line in the separated direction (Vertical for the figure above). Marks of left and right (or above and below) make a pair. To change the mark position, move them together.	
	• This function is disabled if Shape].	





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. **Creating Register Marks**

CFX series (free register marks)



Click the [Create Free Register Marks] button on the FineCut menu.

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• The [Create Free Register Marks] tool is displayed.



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

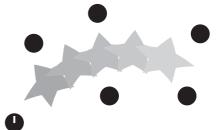
Free Register Mark	
Free Register Mark	
Original register ma	rk
Fill around the regis	ter mark
Start	End
	fine (ut 9

ltem	Description
Create First Free Register Marks	 Select the shape of the register mark. • ON Creates an origin register mark when clicked. This is the register mark used as a reference that is first scanned by the sensor. Only one can be placed. A black circle with a diameter of 10 mm. A white line that is 1 mm thick and 3.5 mm long extends upward from the center. 3.5 mm 10 mm • OFF Creates a ● register mark when clicked. More than one can be placed. Black circle 10mm in diameter.
Fill around the register mark	 Fills around the register mark with red spot color. This function can recognize register marks when register marks are not recognized properly on media that is a color other than white. The recommended color to fill around is red (default) or white. To print with white, refer to the RIP manual. Generally, allocate red spot color to the white ink and print.



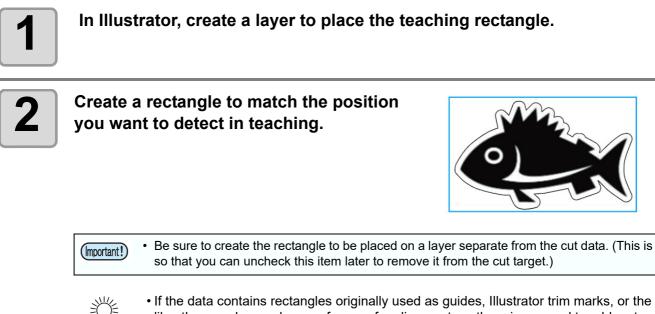
Click any point in the image.

- A free register mark is created in the "FC Free RegisterMark Layer".
- Allowable number of free register marks: 2 to 2,048 (including the first free register mark)
- An error message will be displayed if you try to place a first free register mark while one already exists.



In such a case, move the existing first free register mark to the desired position, or delete it and place a new one.

CFX series (teaching)



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

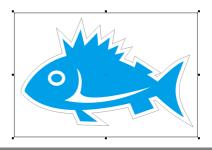
@P.5-34 "Cutting Using Other Non-Mimaki Register Marks (CFX series)"

3

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



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





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

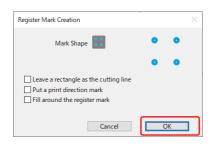




Set the option for the register mark.

• Click [OK] after setting.

Trotec Speedy series



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

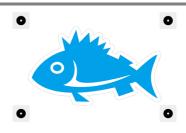
Register Mark Creation			
Mark Shape	0 0	•	•
Leave a real Put a print Fill around	direction r	mark	• ne
ОК		Cancel	

Item	Description
Leave a rectangle as the cutting line	Cuts the rectangle created in step 1.
Put a print direction mark	mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction.
Fill around the register mark	Fills around the register mark with red (Trotec Speedy series, DCF- 605PU (Digital coating machine)) or gray (Gravotech LS series) spot color.
	 Recommend color to fill around is red / gray (default) or white. To print with white, refer to the RIP manual. Generally allocate red spot color to white and print. When performing register mark detection with [Camera] on the Gravotech LS series: When using media other than white, be sure to check [Fill around register marks].



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



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

Cutting an Object

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

CG-EX series

Detect the register marks and cut the object.



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

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



Click [Plot] button in the FineCut Command Bars.

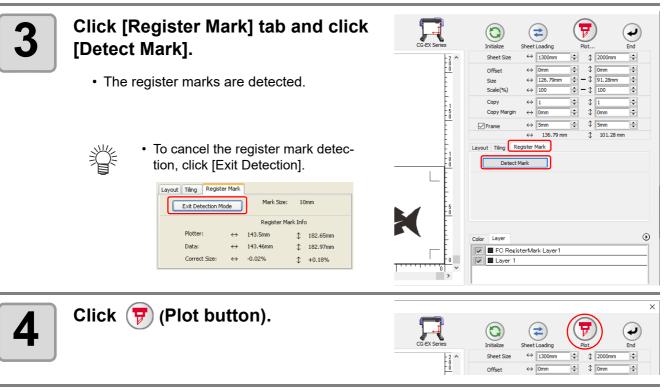
 When an unnecessary object to cut exists on CorelDRAW, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.

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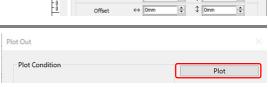
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Click [Plot] to start cutting.



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

• 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 CoreIDRAW. If printing the same data multiple times, use the copy function of your print software (RIP). Align the images to X/Y (vertical/horioantal) direction.
	 When CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 or TPC is used, you can print & cut by one operation working with RasterLink. (



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

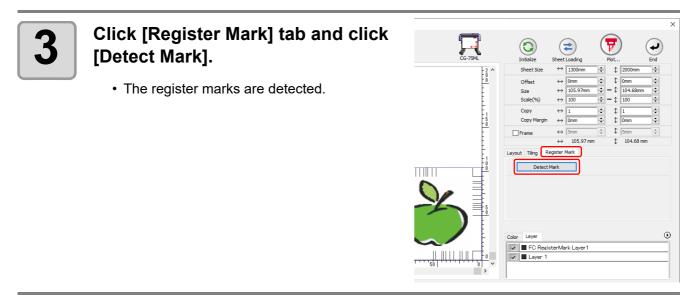


Click [Plot] button in the FineCut Command Bars.

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 When an unnecessary object to cut exists on CorelDRAW, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.





Set register marks to detect continuously.

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

Lay	out Tiling	Register Ma	ark		
	Exit D	etection Mode		rk Size:] ID Certi	10mm fication Mode
Ē	5	Repeat 4	⇒ 1	•	\$ 1
	Sea	h Position	First Time	F	
			Continue	F	
		af Mode			
Ro	II Mode	9			

ltem		Description
ID Certification Mode		(ﷺ P.3-31)
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.		Set the sheet numbers to replace.
Search	First Time	Select the first detection points of the register mark.
Position	Continue	Select the second and the subsequent detection points of the reg- ister mark.

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



• When detecting a large data, increase the mark detection points to cut more precisely.

When detecting a small data, decrease the detection points of "Continue" to reduce the detecting time.

• When there is the intermediate register mark, four positions detection is set for the detection point both for the first time and the second time. You cannot select other than above.

Layout Tiling	Register Ma	rk			
Exit De	tection Mode	Mar	k Size:	10mm	
8	Repeat +	→ 1	•	\$ 1	÷
Search	Position	First Time	٣	н г тг	
		Continue	r	L F T F	

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Plot



Click [Plot] to start cutting.

In case of Auto Cut

(When CG-FX/FXII/FXII Plus/75ML, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/ 150, UCJV330 series or TPC is selected)

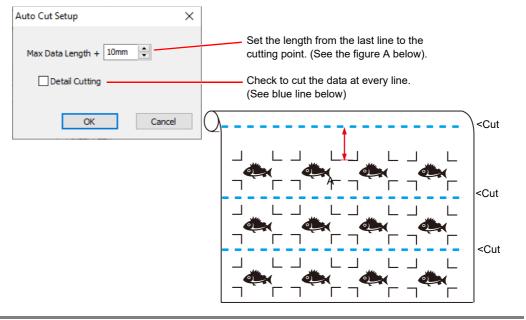
Plot Condition

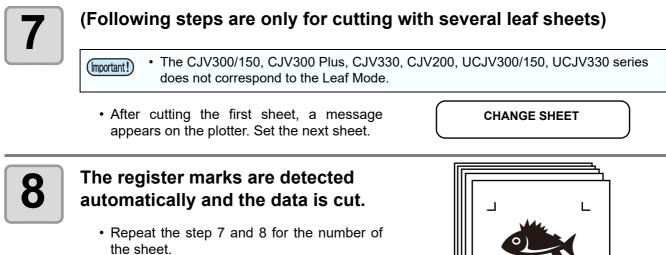
· Checking [Auto Cut] in Plot Out screen enables sheet to cut automatically after each cutting.

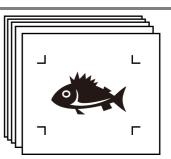
To execute auto cut, make sure to check [Auto Cut] in this screen.

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.







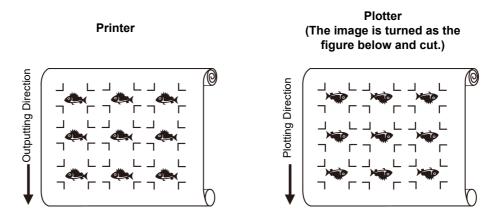


When using CG-FX or CG-FXII or CG-FXII Plus series, register marks are automatically detected.

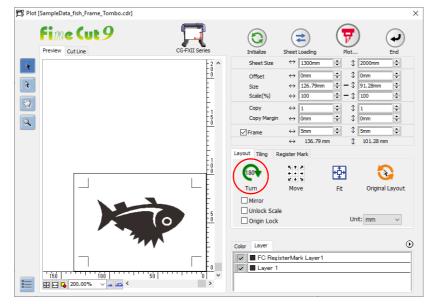
When using the other models, detect the register marks manually every time the sheet is replaced. For more details, refer to the Operation Manual of the main unit.



- When the sheet printed by the printer with take-up function (MIMAKI JV series etc.) is rolled on a
 paper core
- The paper core can be set to the plotter without rewinding, and it can be cut continuously.



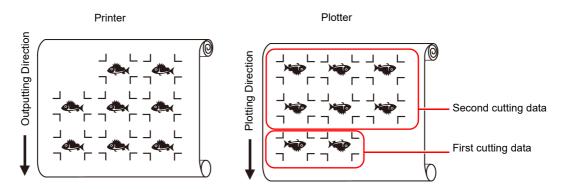




(2) Work from the step 3.

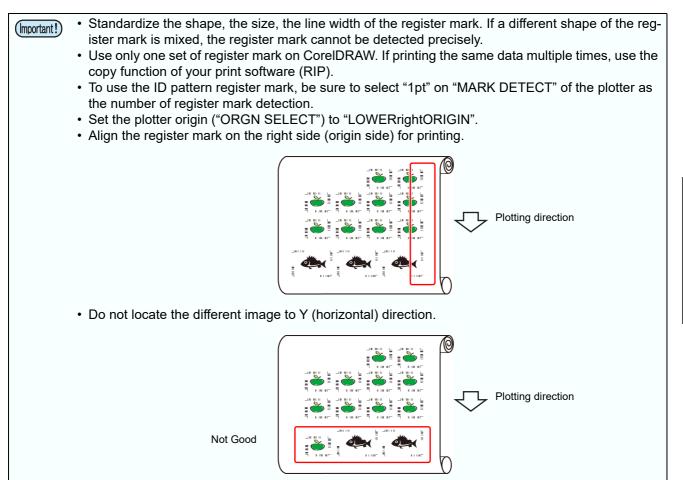


- · When the continuously-printed data does not fill a part of the lines
- Cut the data in twice to cut all the data.



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.

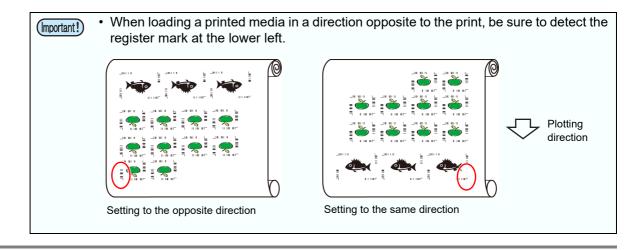


Creating Register Marks

1

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

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



2

Click [Plot] button in the FineCut Command Bars.

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▶ 💋	RL	P	Δ	i	

• When an unnecessary object to cut exists on CorelDRAW, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.



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

• The register marks are detected.



掌

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

4	Confirm that [ID Certification Mode] is checked.	Layout Tiling Register Mark Exit Detection Mode ID Certification Mode PatternID = 3750
5	Click 큣 (Plot button).	X GG-75ML GG-75ML Lintialze Sheet Size GfGet GfGet GfGet CG-75ML Lintialze Sheet Loading CG-75ML Sheet Size CG-75ML
6	 Click [Plot]. Data is sent and the plotter enters Local mode. For Auto Cut, refer to (P.3-29) 	Plot Out × Plot Condition Plot
7	Repeat the step 2 to 6 for the other data to be cut continuously at a time.	to be the same as the order of printing.

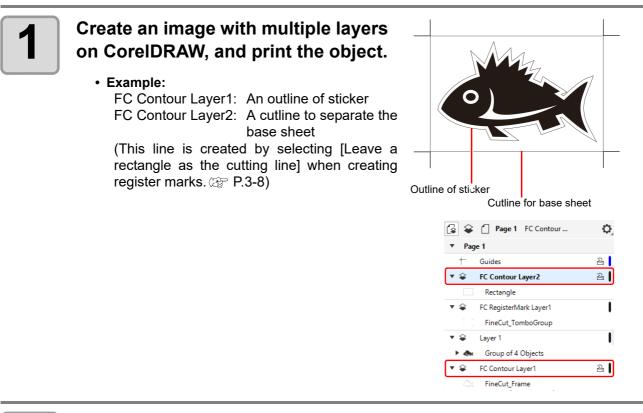
Press [REMOTE] button on the plotter.

• Cutting starts.

8

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

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



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

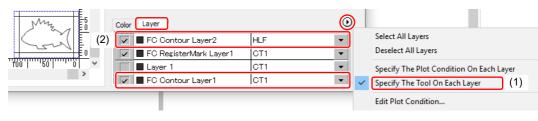
• For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.





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

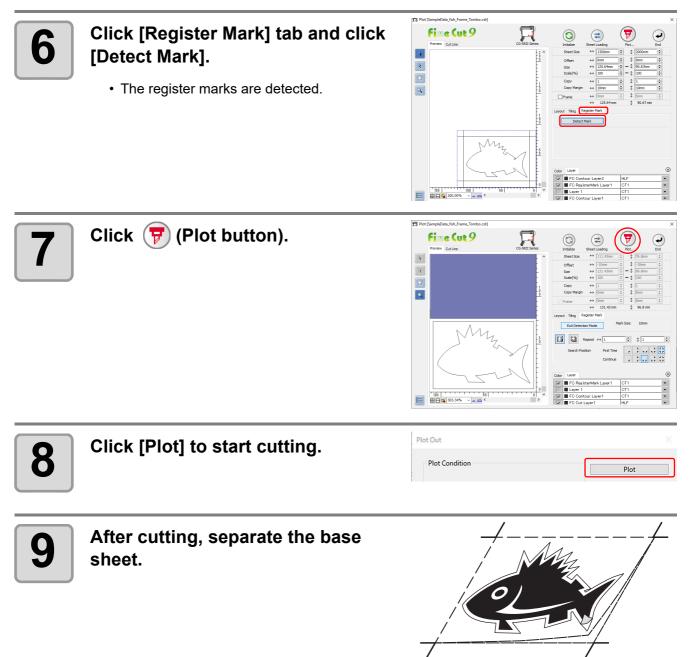
- Example:
- (1) Select [Specify The Tool on Each Layer].
- (2) For FC Coutour Layer1: Select "CT1".
 For FC Coutour Layer2: Select "HLF".
 (For more details, refer to P.5-12.)





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

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



CF2, DC, CF3 series

Detect register marks, and cutting

1

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

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



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



Click [Plot] button in the FineCut Command Bars.

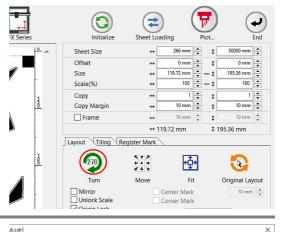




 When an unnecessary object to cut exists on CorelDRAW, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.



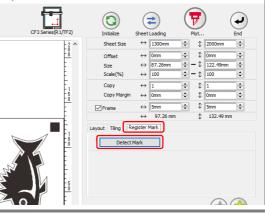
Click 👰 (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.





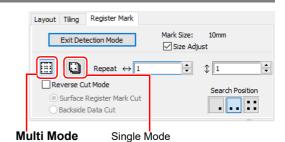
Click [Register Mark] tab and click [Detect Mark].

• The register marks are detected.





Select the cutting type.

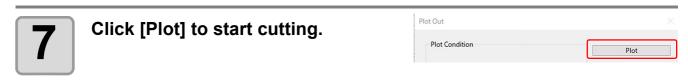


Item Description Size Adjust When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media. Multi Mode / Single Mode Multi Mode: Select when cutting plural images printed on one media. Single Mode: Select when cutting sheet with one set of register mark. Repeat If cutting continuously: Input the number of the sheet for cutting continuously. • If not cutting continuously: Check both directions are set to "1". **Reverse Cut Mode** Check if cutting from the reverse side. Check this when cutting the media that cannot be cut finely from the printed face such as a corrugated board. ((BP P.3-40) This function can be used when is selected as a register mark shape in creating a register mark. **Search Position** Select the search position (1/2/4 points).



Click 🔫 (Plot button).







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

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



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

• Press the CE key to cancel continuous cutting.

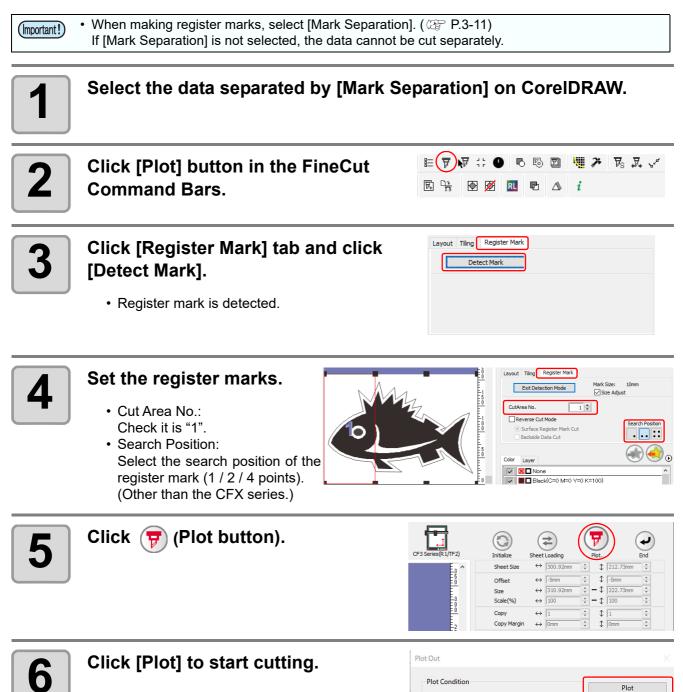


Detect register marks.

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

Cutting with Mark Separation

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



Mark Size:

Plot

. .. .

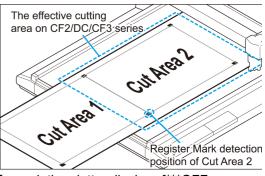
ۍ 🍤

2 1



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.



Detect register marks of the cut area "2".

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

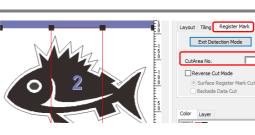


Set the register marks.

• Cut Area No.: Change to "2".

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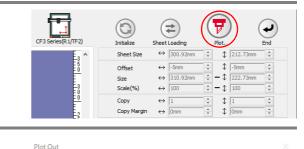
 Search Position: Select the search position of the register mark (1 / 2 / 4 points). (Other than the CFX series.)



Plot Condition

10







Click [Plot] to start cutting.

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

3

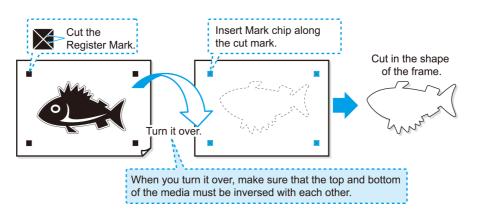
Cutting from the reverse side

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.

• 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 $\begin{bmatrix} 1 & 1 \\ 1 & r \end{bmatrix}$ is selected on [Mark Shape], this function is disabled.



1

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

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



Click [Plot] button in the FineCut Command Bars.

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 When an unnecessary object to cut exists on CorelDRAW, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.

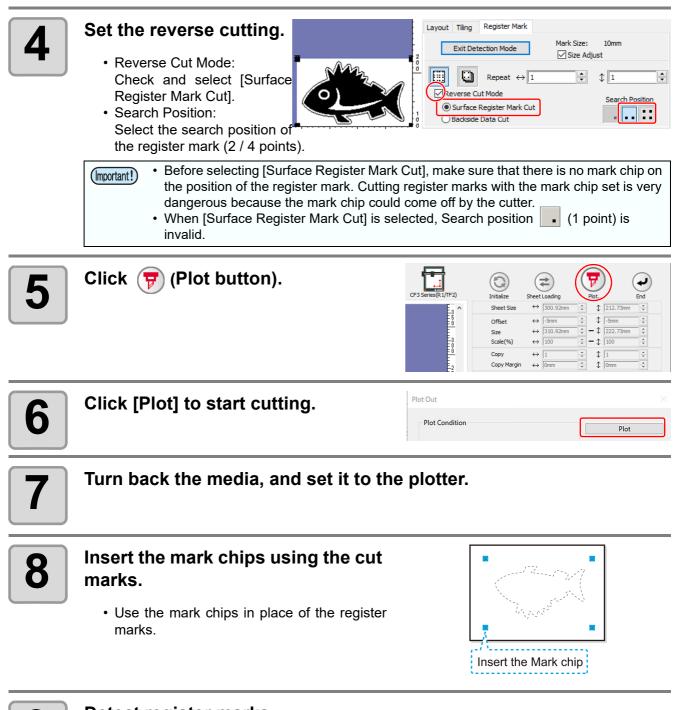
Layout Tiling Register Mark

Detect Mark



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

• The register marks are detected.





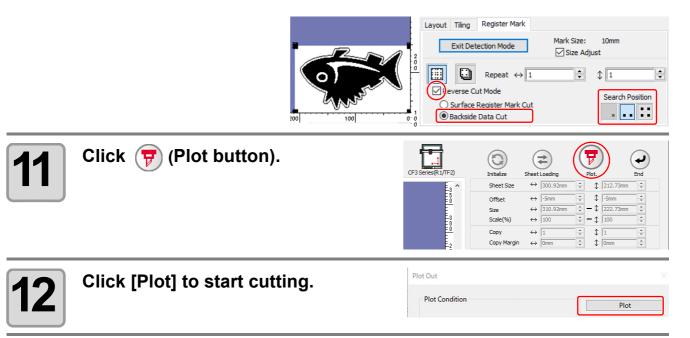
Detect register marks.

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



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).



CFL-605RT

Detect register marks, and cutting

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

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



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



Click [Plot] button in the FineCut menu.

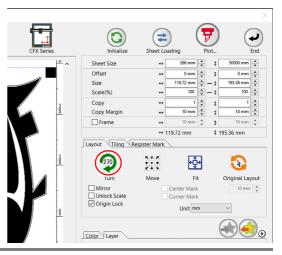




 When an unnecessary object to cut exists on Corel Draw, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.



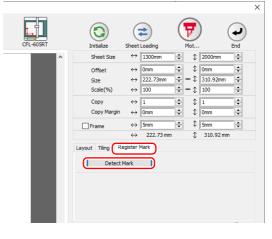
Click (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.





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

• The register marks are detected.





Select the cutting type.

Layout Tiling Register Mark	
Exit Detection Mode	Mark Size: 10mm ☑ Size Adjust
$\begin{array}{c} \blacksquare \\ \blacksquare \\ \hline \blacksquare \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline$	
Reverse Cut Mode	epeated Frame Cut Search Position
 Outer Frame Register Mark Backside Data Cut 	

Multi Mode

Single Mode

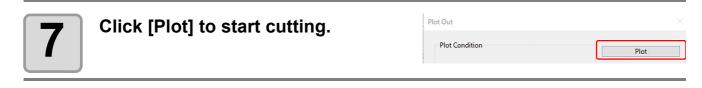
Item	Description
Size Adjust	When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media.
Multi Mode / Single Mode	 Multi Mode: Select when cutting plural images printed on one media. Single Mode: Select when cutting sheet with one set of register mark.
Repeat	 If cutting continuously: Input the number of the sheet for cutting continuously. If not cutting continuously: Check both directions are set to "1".
Reverse Cut Mode	Check if cutting from the reverse side. Check this when cutting the media that cannot be cut finely from the printed face such as a corrugated board. (@P P.3-40)
Search Position	Select the search position (1/2/4 points).



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.5-10)





(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.

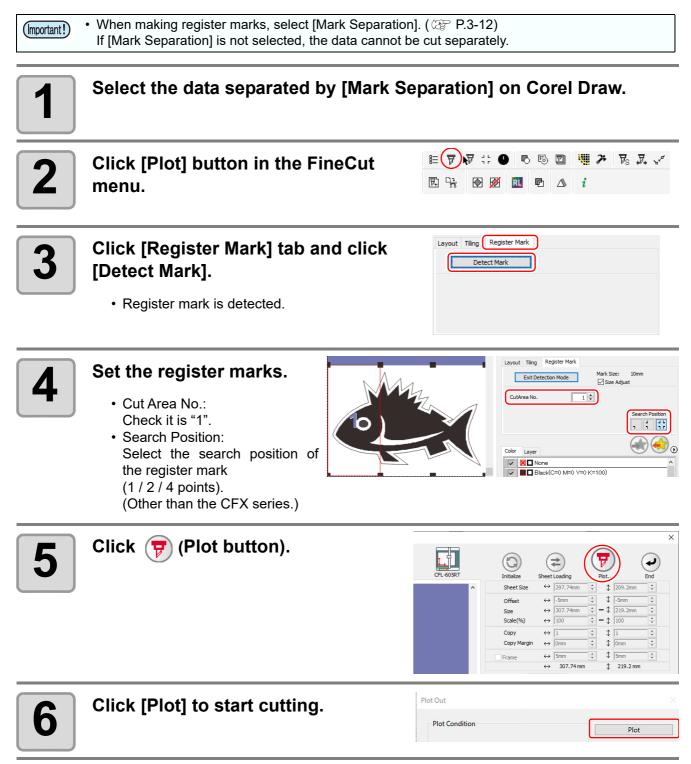
10 Detect

Detect register marks.

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

Cutting with Mark Separation

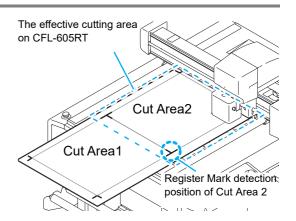
The large data that cannot be cut in one time can be cut in several times.





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.



Detect register marks of the cut area "2".

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



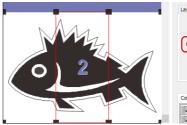
Set the register marks.

 Cut Area No.: Change to "2".

Click (📅

Search Position: Select the search position of the register mark (1 / 2 / 4 points). (Other than the CFX series.)

(Plot button).



Layout Tiling Register Mark	
Exit Detection Mode	Mark Size: 10mm ☑ Size Adjust
CutArea No. 2	
	Search Position
Color Layer	A
🔽 🗙 🗖 None	^
🔽 🔳 🗖 Black(C=0 M=0 Y=0	K=100)

3





Click [Plot] to start cutting.

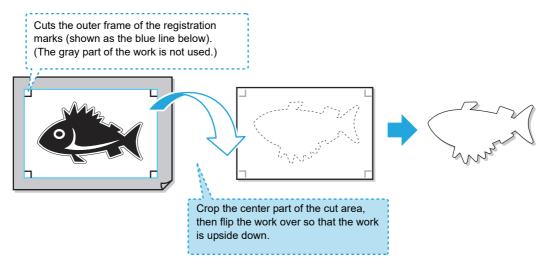
• Repeat the Step 7 to 11 for each of the divided register mark.

Plot Out	×
Plot Condition	Plot

Reverse Cut

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

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



 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 details, refer to the Operation Manual of the main unit.



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

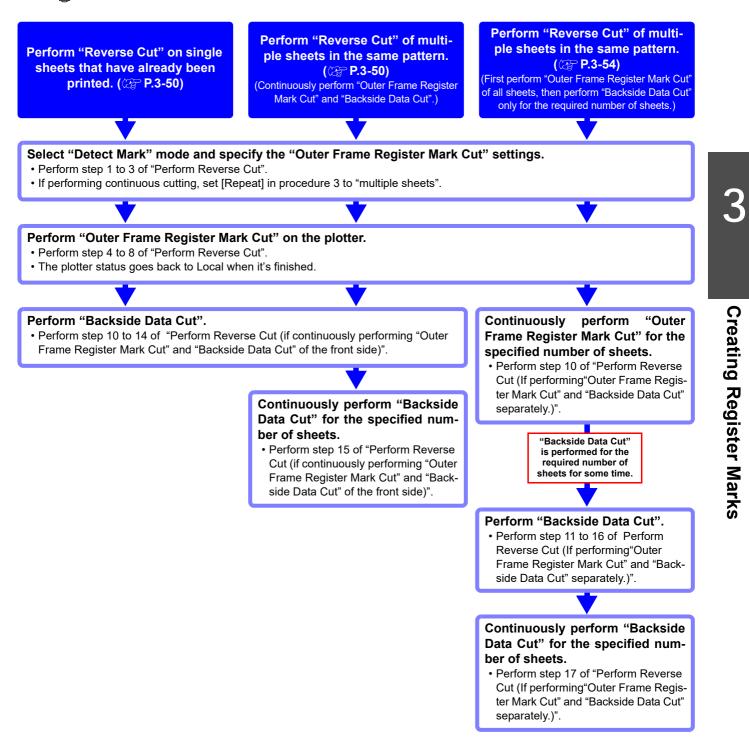
- (1) After performing a front g reverse side process once, you can then perform all following front/reverse-side work by using only the plotter (P.3-50). (software version 8.5 or later must be used)
 - Use of FineCut 8 (software version 8.5 or later) and CFL-605RT simplifies work by allowing you to use only the plotter for the second and all following sheets by performing only the first task by using FineCut 8.
- (2) By first continuously performing front-side work, reverse-side work is performed afterward only for the number of sheets required. (P.3-54) (software version 8.6 or later must be used)
 - After first completing front-side work for multiple sheets, reverse-side work can be performed afterwards for only the required number of sheets of those for which front-side work has been completed.

Reverse Cut Use Application

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



• For more detailed operating procedures, first be sure to fully understand the overview presented in this section, and then refer to the corresponding procedures on P.3-50 and P.3-54.



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



Click [Plot] button in the FineCut menu.

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民景	🕅 🕅	RL	P	Δ	i			



 When an unnecessary object to cut exists on Corel Draw, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.



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

· The register marks are detected.

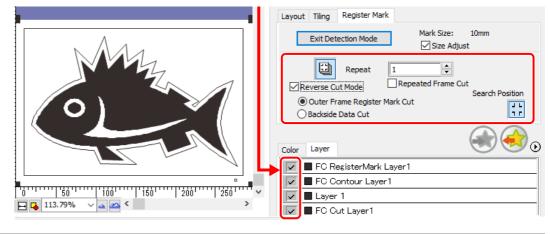
Layout Tiling Register Mark	
Detect Mark	

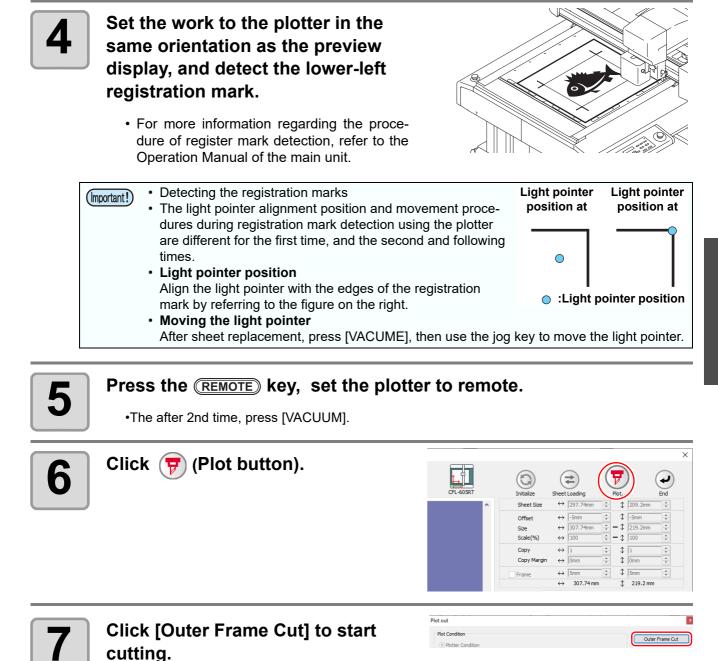


Set the "Outer Frame Register Mark Cut".

[Reverse Cut Mode]	: Checked
[Outer Frame Register Mark Cut]	: Checked
[Repeat Frame Cut]	: Unchecked
[Search Position]	: Only four points.
[Repeat]	: Input the number of sheets to cut.
[Multi Mode / Single Mode]	: Only Single Mode.
If you select "Outer Frame Registe	er Mark Cut", only the outer frame around the register mark is
cut.	

When the path in the color/layer has been selected (cut data is displayed on the preview), data is not cut.

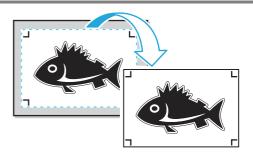






If "Outer Frame Register Mark Cut" is performed, the area around the register marks is cut out in a square.

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



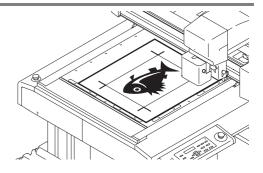


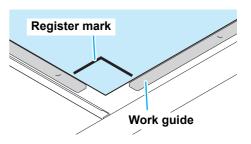
When the surface cut is completed, automatically becomes to a local mode. The head will be saved in the top right corner.

· Vacuum also turned OFF.

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

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







Press the (REMOTE) key, set the plotter to remote.

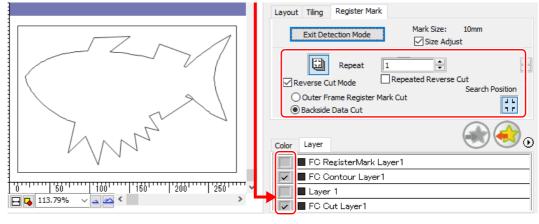


Set the reverse cutting.

: Checked
: Checked
: Unchecked
: Do not select.
The register mark is not detected when the back side is cut.
: Input the same number of sheets to cut continuously in the
[Repeat] field in step 3

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

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



13 Click **7**



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

Click [Plot] to start cutting.

(Plot button).

15

14

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

- (1) Detect the front side registration marks by referring to step 4 and 5, and change to remote mode.(2) Remove the frame by referring to step 8.
- (3) Perform "Backside Data Cut" by referring to step 10 and 11.
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

(Important!

• These operations are not necessary if [Repeat] is not set in step 3.

Plot

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



Click [Plot] button in the FineCut menu.

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Layout Tiling Register Mark

Detect Mark

 When an unnecessary object to cut exists on Corel Draw, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.



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

• The register marks are detected.



Set the "Outer Frame Register Mark Cut".

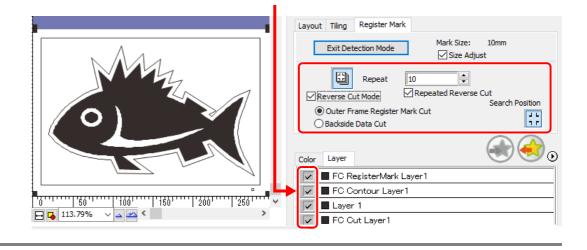
[Reverse Cut Mode]	:
[Outer Frame Register Mark Cut]	
[Repeated Frame Cut]	
[Search Position]	1
[Repeat]	

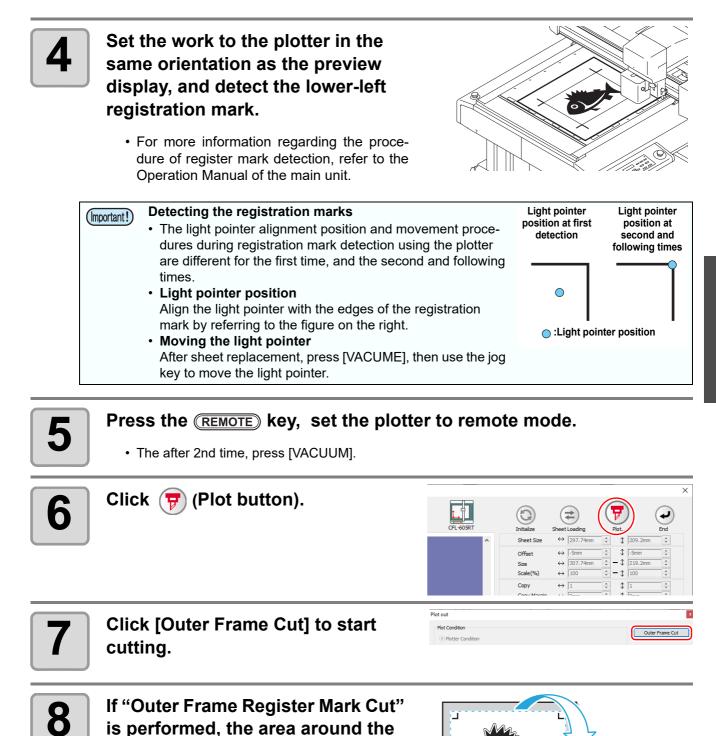
: Checked : Checked : Checked : Only four points.

: Input the number of sheets to cut.

• If you select "Outer Frame Register Mark Cut", only the outer frame around the register mark is cut.

When the path in the color/layer has been selected (cut data is displayed on the preview), data is not cut.





register marks is cut out in a

square is set in the plotter side.

the right illustration is not used.)

· Output conditions in the case of cutting this

 In the following procedure, only the cut media will be used. (The gray part shown on

square.

9

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

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

SHEET EXCHANGE VAC?START ED:FIN

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

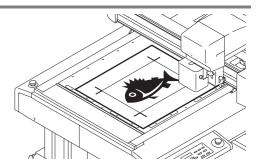
• This completes the front side operations.



10

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

- Set the work you cropped in Step 8 to the plotter.
- Set the work to the plotter in the same orientation as the preview display, and detect the lower-left registration mark.



- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
- Press the [REMOTE] key, the plotter becomes to a remote mode.

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

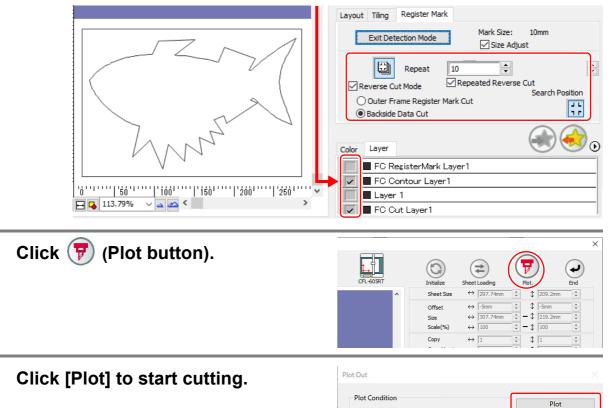


Set the reverse cutting.

[Reverse Cut Mode]	: Checked
[Backside Data Cut]	: Checked
[Repeated Reverse Cut]	: Checked
[Search Position]	: Do not select.
	The register mark is not detected when the back side is cut.
[Repeat]	: Input the same number of sheets to cut continuously in the
	[Repeat] field in step 3
[Multi Modo / Single Mode]	· Only Single Mede

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

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



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



4

13

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

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

MEDIA REVERSE AND PUSH[REMOTE]

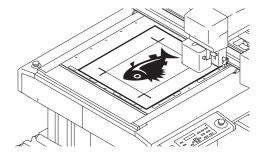


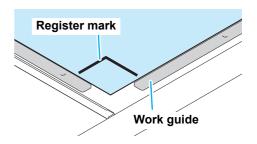
Perform the following in order to cut the reverse side.

- Turn the work upside down to be in the same direction as the preview display, then set to the plotter.
 - Set the work whose outer frame has been cut to the plotter.
 - When cut the reverse, it will be opposite to the printing surface. (Upside down)
 - At the reverse cut, turn upside down and set by butting the lower left corner against the work guide.
- (2) Press the [REMOTE] key, the plotter becomes to a remote mode



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







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

(1) Perform front side registration mark detection again (four points) by referring to step 11.

- (2) Cut the reverse side by referring to step 16.
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

CF22-1225

Detect register marks, and cutting

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

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



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



Click [Plot] button in the FineCut Command Bars.

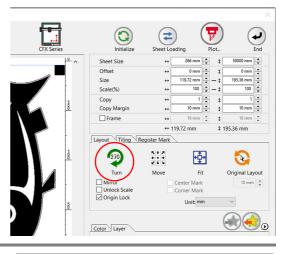




 When an unnecessary object to cut exists on CorelDRAW, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CorelDRAW.



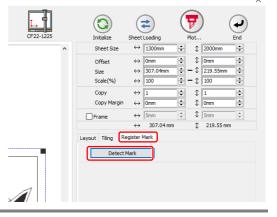
Click (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.





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

• The register marks are detected.





Select the cutting type.

	Layout	Tiling	Register Mark			
	E	Exit Dete	ection Mode		Mark Size: 🗹 Size Adju	10mm ust
			Repeat ↔	1		\$ 1
	U Ke	verse Cu	it Mode			Search Position
NA14: 1	Mad	_				

Multi Mode Single Mode

ltem	Description
Size Adjust	When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media.
Multi Mode / Single Mode	 Multi Mode: Select when cutting plural images printed on one media. Single Mode: Select when cutting sheet with one set of register mark.
Repeat	 If cutting continuously: Input the number of the sheet for cutting continuously. If not cutting continuously: Check both directions are set to "1".
Reverse Cut Mode	Check if cutting from the reverse side. Check this when cutting the media that cannot be cut finely from the printed face such as a corrugated board. (@P P.3-63)
Search Position	Select the search position (1/2/4 points).



Click (**P**lot button).

				×
CF22-1225	Initialize	Sheet Loading	Plot	() End
^	Sheet Size Offset	↔ 297.04mm ↔ -5mm		-
	Size Scale(%)	↔ 307.04mm ↔ 100		m 후
	Copy Copy Margin	\leftrightarrow 1 \leftrightarrow 0mm		* * *
		í	A	

• 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.5-12)



(The following operations are applied only for cutting multiple sheets in single cut mode.) Use the plotter panel for operations.

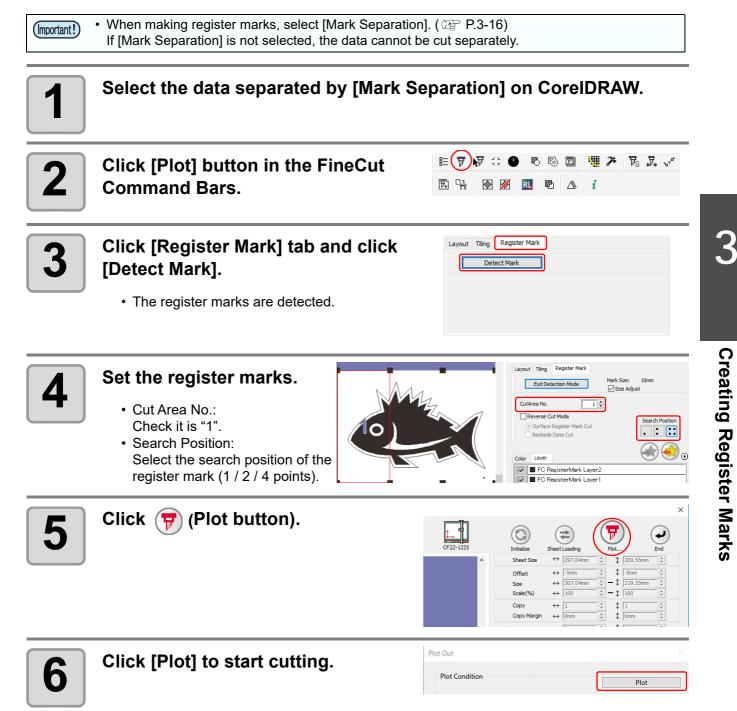
• Follow the instructions displayed on the panel.

For more details, refer to the Operation Manual of the main unit.

8

Cutting with Mark Separation

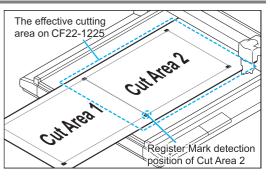
The large data that cannot be cut in one time can be cut in several times.





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.



Detect register marks of the cut area "2".

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

Plot Out

Plot Condition

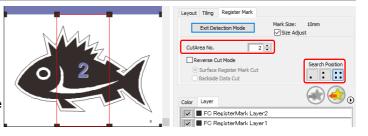


Set the register marks.

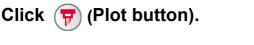
 Cut Area No.: Change to "2".

賞

 Search Position: Select the search position of the register mark (1 / 2 / 4 points).







CF22-1225	Initialize	Sheet Loading	Plot		end
^	Sheet Size	↔ 297.04mm	-	209.55mm	* *
	Offset	↔ -5mm	÷.	-5mm	* *
	Size	↔ 307.04mm	÷-1	219.55mm	* *
	Scale(%)	↔ 100	÷ - (100	* *
	Сору	\leftrightarrow 1	÷ 1	1	Å
	Copy Margin	↔ Omm	÷ 1	Omm	* *
		r		N (F=	-

Plot



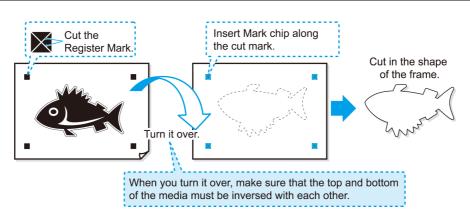
Click [Plot] to start cutting.

• 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.

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.



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

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



Click [Plot] button in the FineCut Command Bars.

	V :: •	6	5	P	Щ Ж	$\overline{\pmb{v}}_{\!S}$	₽, v″
R 13	🖈 🖗	RL	ē	Δ	i		

 When an unnecessary object to cut exists on CoreIDRAW, select objects to be cut and register marks, and click [Plot Selected Path]. The output order is the order selected in CoreIDRAW.



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

• The register marks are detected.



Δ	Set the reverse cutting.	Layout Tiling Register Mark Exit Detection Mode Mark Size: 10mm
	 Reverse Cut Mode: Check this. Search Position: Select the search position of the register mark (2 / 4 points). 	Repeat 1 Reverse Cut Mode Search Position
		ut], make sure that there is no mark chip on egister marks with the mark chip set is very ome off by the cutter.

5	Click 🗑 (Plot button).	CF22-1225	$\begin{array}{c c} & & & & \\ \hline \\ Initialize & Sheet Loading & & & \hline \\ \hline \\ Sheet Size & \leftrightarrow & 297.04mm & \uparrow & 209.55mm & \Rightarrow \\ \hline \\ \hline \\ Size & \leftrightarrow & 307.04mm & \uparrow & \uparrow & 209.55mm & \Rightarrow \\ \hline \\ \hline \\ Size & \leftrightarrow & 307.04mm & \uparrow & \uparrow & 219.55mm & \Rightarrow \\ \hline \\ \\ Size & \leftrightarrow & 307.04mm & \uparrow & \uparrow & 1 & \odot & \uparrow \\ \hline \\ \\ Copy & \leftrightarrow & 1 & \oplus & \uparrow & 1 & \oplus \\ \hline \\ Copy Margin & \leftrightarrow & \hline \\ \hline \end{array}$
6	Click [Plot] to start cutting.	Plot Out	Plot
7	Turn back the media, and set it to the	e plotter.	
8	Insert the mark chips using the cut marks.		
	 Use the mark chips in place of the register marks. 		Insert the Mark chip



Detect register marks.

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



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

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

CFX series (excluding free register marks)

Detect register marks, and cutting

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

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



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



Click [Plot] button in the FineCut Command Bars.

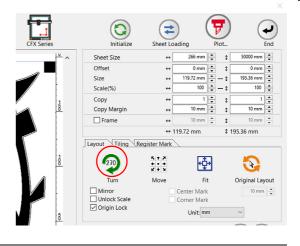




 If there are any objects on CoreIDRAW that are not to be cut, select only the necessary objects and the register mark data, and then click the [Plot Selected Path] button.



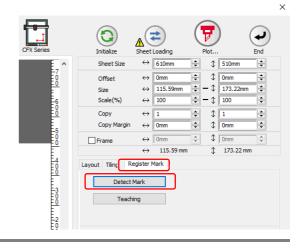
Click 👰 (Turn button) to match the direction of the image on the plotter with the image displayed in FineCut.





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

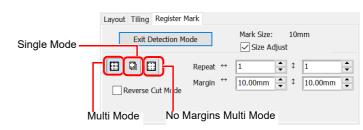
• The register marks are detected.



Creating Register Marks



Select the cutting type.



ltem	Description
Size Adjust	When the size of an actual image and a printed image are dif- ferent, check this to cut a frame aligning with the printed media.
Multi Mode/Single Mode/ No Margins Multi Mode	 Multi Mode: Select this when cutting multiple images printed continuously on a single piece of media. Single Mode: Select this when cutting a sheet with one set of register marks. No Margins Multi Mode^{*1}: Select this when cutting an image with register marks printed continuously on a single piece of media without margins.When copying an image with register marks in RasterLink7, place the next register marks so that they completely overlap each other.
Repeat	 If cutting continuously: Input the number of sheets for cutting continuously. If not cutting continuously: Confirm that it is set to "1".
Margin	In Multi Mode, specify margins between repeated sets of register marks.

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



Click (F) (Plot button).

 To set the plot conditions on each color / layer, select [Specify The Plot Condition On Each Color / Layer] on the "Plot" screen. (P.5-12)





Click [Plot] to start cutting.

Plot

8

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

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



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

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



Detect register marks.

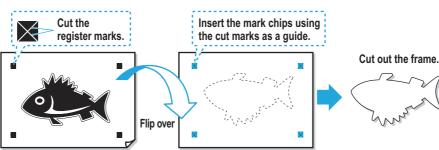
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
- Repeat steps 8 to 12 for the number of sheets.

Reverse Cut

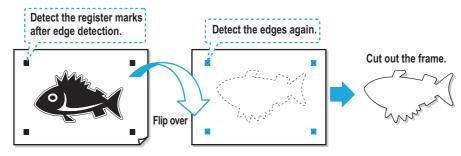
Images can be cut from the reverse side, not from the printed (front) side. Use this function when cutting media (such as cardboard) that cannot be cleanly cut from the front side.

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

• When using mark chips



• When using the edge detection function



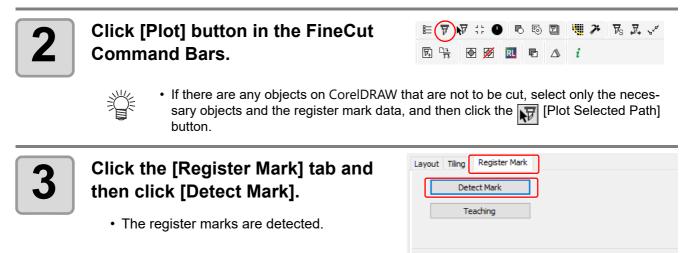
When using mark chips

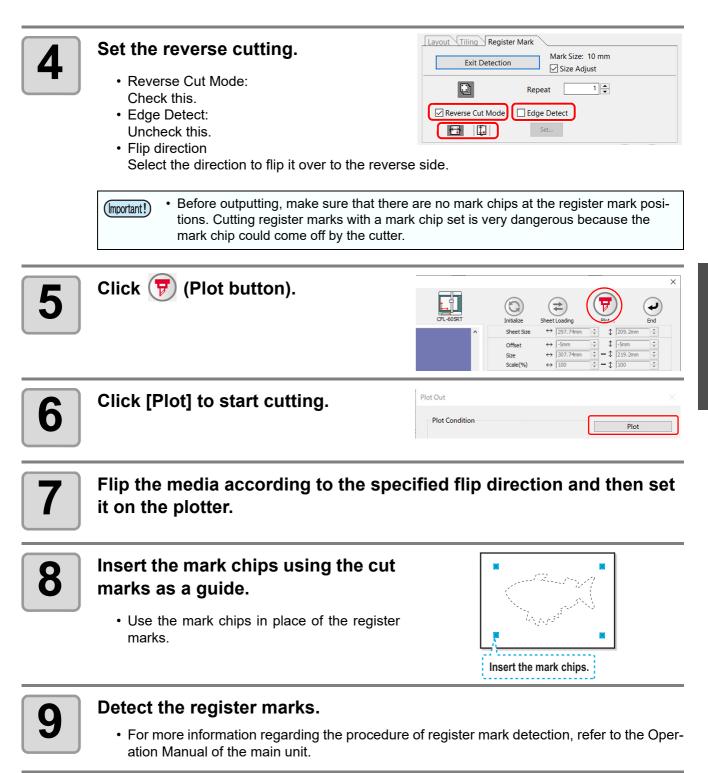


Turn the printed face up, set the media to the plotter, then detect the register marks.

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

Laver to detect







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

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

When using the edge detection function



Click the [Plot] button in the FineCut menu.

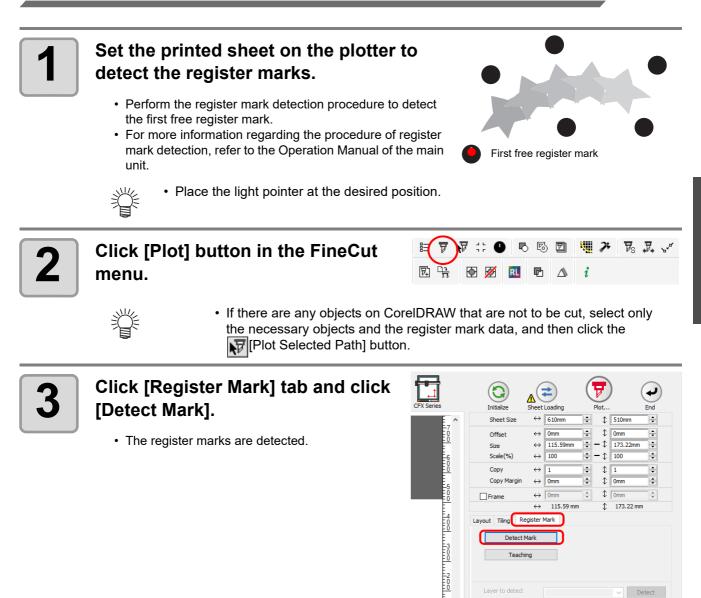
⊨(₹)	V 🗄 🛛	6	6	P	Щ Э	$\overline{V}_{\!S} \hspace{0.1cm} \underset{\hspace{0.1cm} \bullet}{\hspace{1cm}} \overline{V}_{\hspace{1cm}\bullet} \hspace{0.1cm} \overset{\hspace{0.1cm} \bullet}{\hspace{0.1cm}} \overset{\hspace{0.1cm} \bullet}{} \overset{\hspace{0.1cm} \bullet}{\hspace{0.1cm}} \overset{\hspace{0}}{\hspace{0}}} \overset{\hspace{0}}{\hspace{0}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}{\hspace{0}} \overset{\hspace{0}}{\hspace{0}}} \overset{\hspace{0}}{\hspace{0}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}{\hspace{0}} \overset{\hspace{0}}{\hspace{0}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}{\hspace{0}} \overset{\hspace{0}}}{\hspace{0}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}} \overset{\hspace{0}}}{\hspace{0}} \overset{\hspace{0}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}}{ \overset{\hspace{0}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}}} \overset{\hspace{0}}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}} \overset{\hspace{0}}}}} \overset{\hspace{0}}}}} \overset{\hspace{0}}}}} $
<u>م</u>	🕁 🙍	RL	P	Δ	i	

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

2	Click the [Register Mark] tab and then click [Detect Mark]. • The register marks are detected.	Layout Tiling Register Mark Detect Mark Teaching
3	 Set the reverse cutting. Reverse Cut Mode:Check this. Edge Detect: Check this and then click the [Set] button to configure the edge detection settings. Flip direction:Select the direction to flip it over to the reverse side. 	Layout Tiling Register Mark Exit Detection Mark Size: 10 mm Size Adjust Repeat 1 Repeat 1 Reverse Cut Mode Edge Detect Set
4	Click 🗑 (Plot button).	CPL-60SRT Initialize Sheet Loading Sheet Size \Leftrightarrow 297.74mm \bigcirc \ddagger 209.2mm \bigcirc Offset \Leftrightarrow 307.74mm \bigcirc \ddagger 5mm \bigcirc Size \Rightarrow 219.2mm \bigcirc
5	Click [Plot].	Plot Out × Plot Condition Plot
6	When [Edge Detect] is displayed on origin of the plotter to the right botto the [Enter] key.	
7	After following the instructions on the marks, flip over the media and set it	
8	Position the pointer over the corner [Enter] key.	of the media and then press the
	For horizontal reverse: Left bottomFor vertical reverse: Right top	
9	Cutting starts after edge detection is	s complete.

CFX series (free register marks)

Detect register marks, and cutting





Select the cutting type.

Layout 1	iling Register Mark
E	vit Detection Mode Mark Size: 12mm
	Repeat ↔ 1
Multi Mode	Single Mode

ltem	Description
Multi Mode / Single Mode	 Multi Mode: Select when cutting plural images printed on one media. Single Mode: Select when cutting sheet with one set of register mark.
Repeat	 If cutting continuously: Set the number of continuous cuts. If not cutting continuously: Confirm that both the vertical and horizontal directions are set to "1".
Margin	Sets the margins for register mark sets when multi mode is selected. • Range: ± data size



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. (2 P.5-12)

Initialize	Sheet Loo	ading				J End
Sheet Size	÷	108.28 mm	- 	\$	67.84 mm	-
Offset	\leftrightarrow	-0 mm	*	\$	-0 mm	*
Size	\leftrightarrow	108.28 mm	*	- ‡	67.84 mm	*
Scale(%)	\leftrightarrow	100	*	- t	100	+



Click [Plot] to start cutting.

,					
	Plot Out			×	
	Plot Condition		Plot		



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

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



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

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



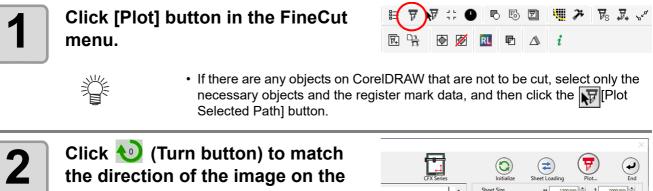
Perform register mark detection using the plotter.

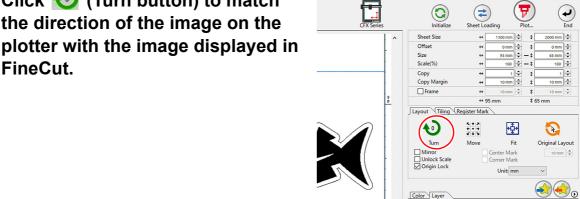
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
- Repeat the step 8 to 10 for the number of the sheets.

CFX series (teaching)

FineCut.

Teaching cut



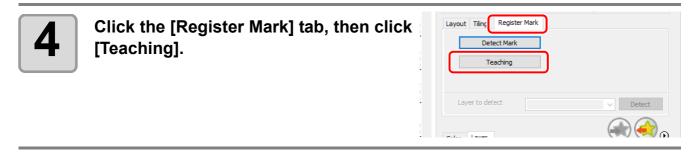




· Clicking the [Teaching] button in the next step with layers other than the layer containing (Important!) the rectangle also checked may cause misalignment.



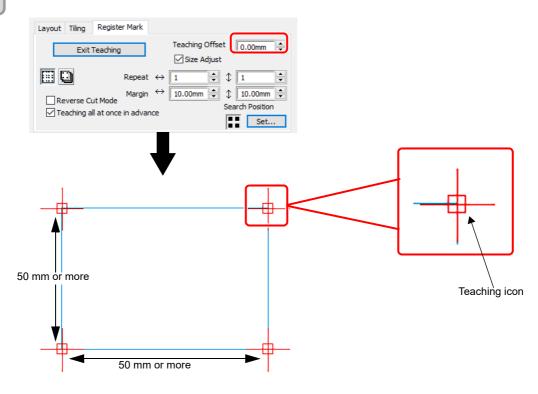
• The [Color] tab can also be used to color code data instead of layers.



• •



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



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



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

7

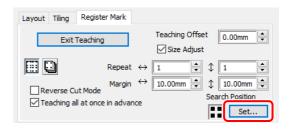
Set the other register marks in the same way.

Layout Tiling Registe	er Mark	
Exit Teaching	Teaching Of	fset 0.00mm
Reverse Cut Mode	- <u>-</u>	

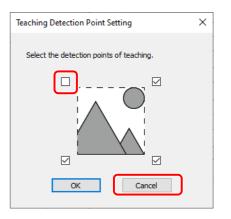
ltem	Description
Size Adjust	When the size of an actual image and a printed image are dif- ferent, check this to cut a frame aligning with the printed media.
Multi Mode/Single Mode	 Multi Mode: Select this when cutting multiple images printed continuously on a single piece of media. Single Mode: Select this when cutting a sheet with one set of register marks.
Repeat	 If cutting continuously: Input the number of sheets for cutting continuously. If not cutting continuously: Confirm that it is set to "1".
Margin	In Multi Mode, specify margins between repeated sets of register marks.
Reverse Cut Mode	Check when cutting from the reverse side. Use this function when cutting media (such as cardboard) that cannot be cleanly cut from the front side. (@ P.3-68)
Teaching all at once in advance	Displayed only in multi-mode. When you check it, all items are cut after teaching.
Teaching Detection Point	Specify the teaching detection point. Select and specify any of the corners.

•About [Teaching Detection Point]

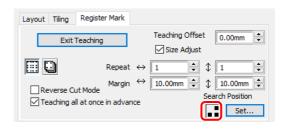
1.Click [Set...].



- 2.Place a check mark only in the corners you want to detect in teaching and then click [OK]. (In the figure to the right, the check mark is removed so that detection is not performed in the upper left corner.)
 - The default is 4-point detection.
 - For CFX, the lower right (origin) cannot be unchecked.



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

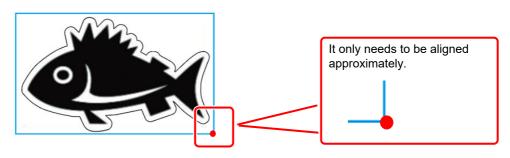




Select [Mark Origin Detection] on the Main unit panel.

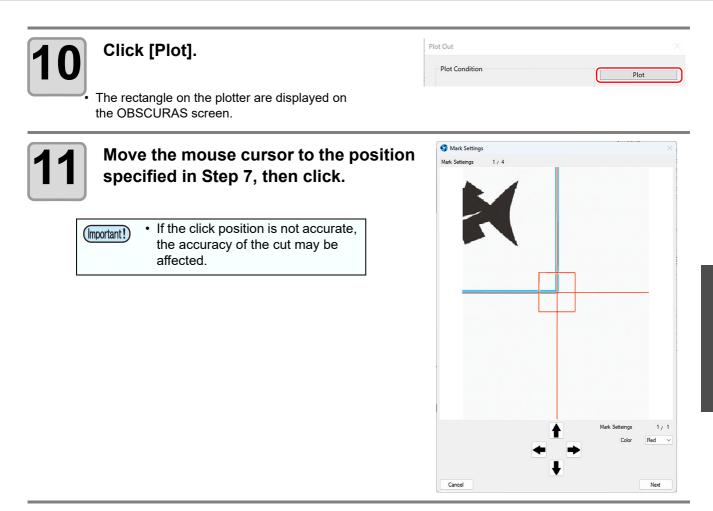
•[Mark Origin Detection]

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



- 4. Once the light pointer is aligned, press the [ENTER] key.
- •The [Register mark shape specification] window appears.
- 5. Select [Teaching] in $\blacktriangle \mathbf{v}$, then press the [ENTER] key.

9





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

3

CFX series (round register marks)

Detect register marks, and cutting

- (mportant!) The conditions for detectable register marks are as follows:
 - The shape must be round.
 - The diameter must be in the range of 3 to 12 mm.
 - There must be at least 2.
 - All register marks must be in the same layer.
 - · No data other than the register marks must be placed on the same layer as the register marks.



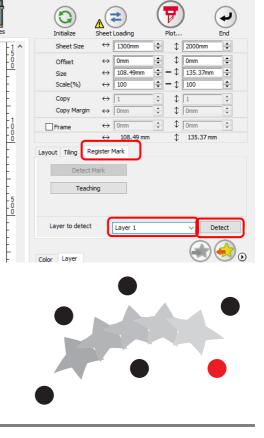
Click the [Plot] button in the FineCut $\blacksquare \ \overline{v} \ \overline{v} : \bullet \ \overline{v} \ \overline{v} : \bullet \ \overline{v} \ \overline{v}$

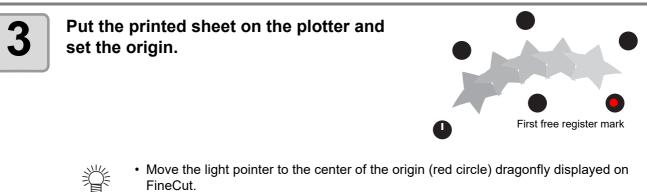
- 掌
- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the F [Plot Selected Path] button.



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

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

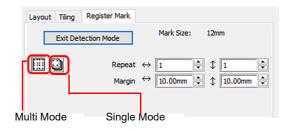




- · Move the light pointer to the center of the origin (red circle) dragonfly displayed on FineCut.



Select the cutting type.



ltem	Description
Multi Mode / Single Mode	 Multi Mode: Select this when cutting multiple images printed continuously on a single piece of media. Single Mode: Select this when cutting a sheet with only one set of register marks.
Repeat	 If cutting continuously: Set the number of continuous cuts. If not cutting continuously: Confirm that both the vertical and horizontal directions are set to "1".
Copy Margin	Set the margins for register mark sets when Multi Mode is selected. • Range: ± data size



7 Click (Plot button).

Ï

• To set the plot conditions on each color / layer, select [Specify The Plot Condition On Each Color / Layer] on the "Plot" screen.((P.5-12)

	(7					
Initialize	Sheet Lo	ading	PI	01		Er
Sheet Size	\leftrightarrow	108.28 mm	*	\$	67.84 mm	
Offset	\leftrightarrow	-0 mm	*	\$	-0 mm	
Size	\leftrightarrow	108.28 mm	+	- ‡	67.84 mm	1
Scale(%)	\leftrightarrow	100	+	- \$	100	
Сору	↔	1	*	\$	1	ł
Copy Margin	\leftrightarrow	10 mm	*	\$	10 mm	
Frame	↔	10 mm	- 	\$	10 mm	
	↔ 1	08.28 mm		\$ 67	7.84 mm	



Click [Plot] to start cutting.

Plot Out Plot Condition

Plot



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



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

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



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

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

Trotec Speedy Series

For cutting instructions, see P.4-16 "Outputting to the Trotec laser engraving machines".

Gravotech LS series

For cutting instructions, see P.4-22 "Outputting to a Gravotech laser engraving machine.".

DCF-605PU (Digital coating machine)

For cutting instructions, see P.4-29 "Outputting to the DCF-605PU (Digital coating machine)".

CHAPTER 4

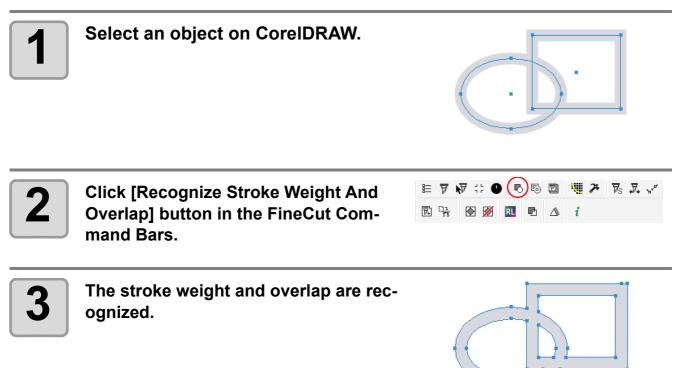
Advanced operations-from FineCut Command Bars



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Setting Output Condition 4-	-39
Separating and Cutting Lines (CF, DC, CF2, CF3 (exce	ept
M-Head), /CFX (except R10-Head)series,CF22-1225 a	nd
CFL-605RT) 4	-40
Perforation Cut Setting 4-	-45

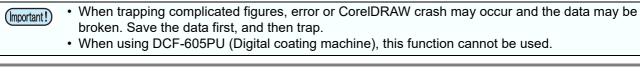
Recognizing Stroke Weight and Overlap

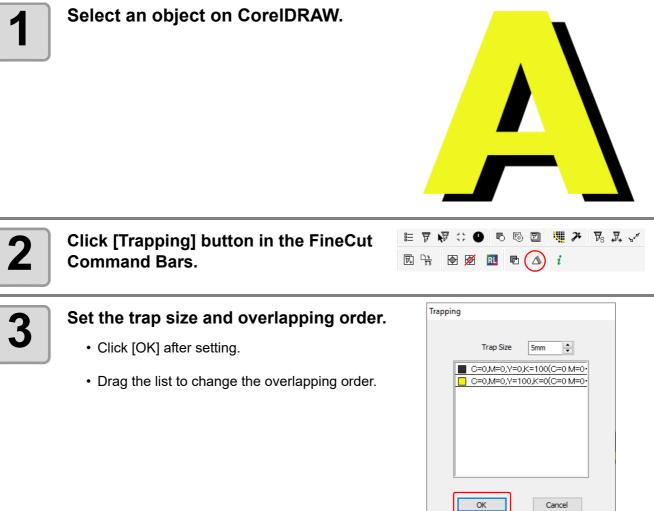
To cut objects in the same shape as displayed on the monitor, recognize the stroke weight and overlap of objects.



Trapping

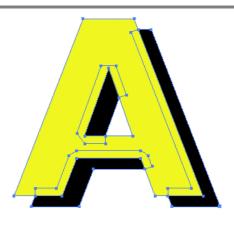
On the overlapping objects, a gap may be generated where the colors are overlapping. Trapping can prevent the gap.





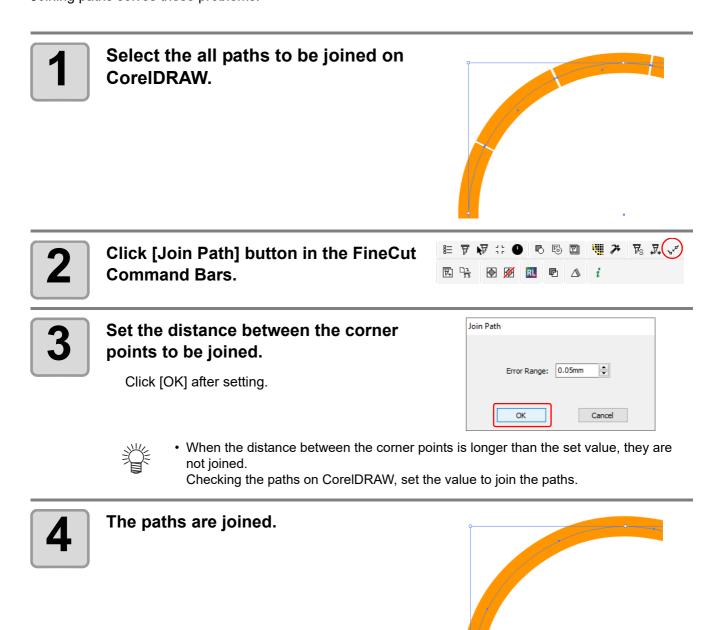


Overlap space is created in the specified size.



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 CorelDRAW, some paths that look connected are separated into several lines. If cutting this, pen-up occurs on every line. When using the CF3 (M-head) / CFX series (R10-head), it cannot cut while considering the end mill diameter. Joining paths solves these problems.

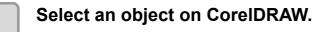


Making a Precut Line around an Object

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.

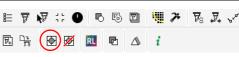
Do not set the weed line on a thick sheet. The line may damage the object.
When using DCF-605PU (Digital coating machine), this function cannot be used.





2

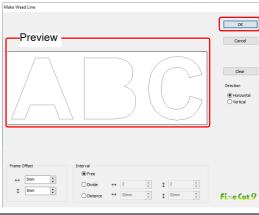
Click [Create Weed Line] button in the FineCut Command Bars.





Set the Weed Line.

After setting, click [OK] .

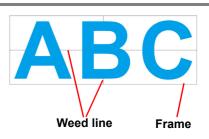


Item		Description
Preview		Check the position and the number of weed lines.
Frame Offs	set	Set the distance between the object and the frame.
	Free	Make the line on the needed position with the needed numbers. Select the direction of the line in [Direction], and click on the preview to make the line.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



Weed lines are created.

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

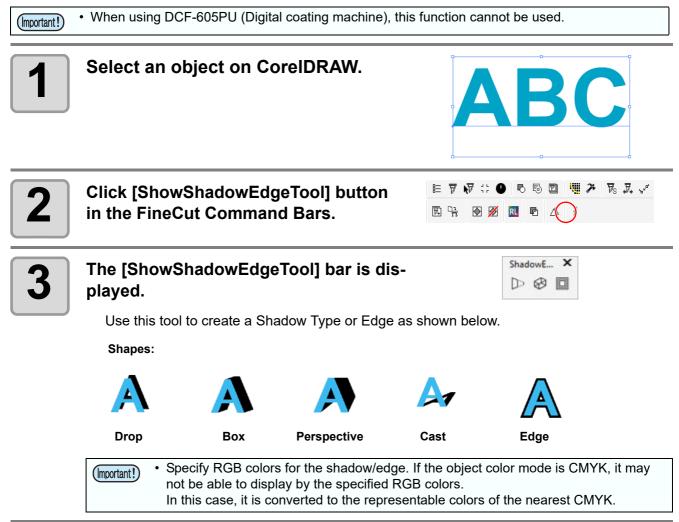




• To delete the created weed line, select [Remove Weed Line] from the FineCut Command Bars.

Creating Shadow / Edge

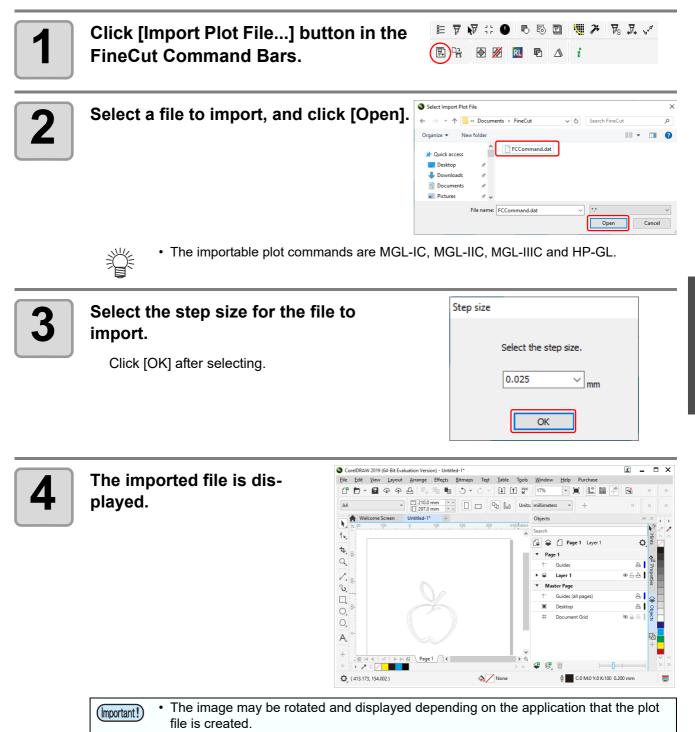
Create a shadow / edge of an object.



Importing / Outputting Plot File

Importing a plot file

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



Advanced operations - from FineCut Command Bars

Λ

Outputting a plot file

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



Click [Output Plot File] button in the FineCut Command Bars.

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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 CorelDRAW 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.





Click [Outline Tools] button in the Fine-Cut Command Bars.

Select an object on CorelDRAW.



• If an message "The error occurred" appears, and contour definition cannot be processed, convert the file to BMP/JPG/GIF/TIF and try again.

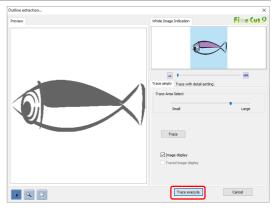


Click [Trace execute] button.

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

To check the traced image on the preview, click [Trace] button.

(CP P.7-56 for other items)

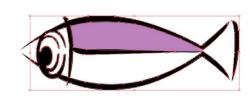




- The data in this layer is set to non-printing, since it is used as cutting data. To print this data, enable "Printable" on CorelDRAW "Layer properties".

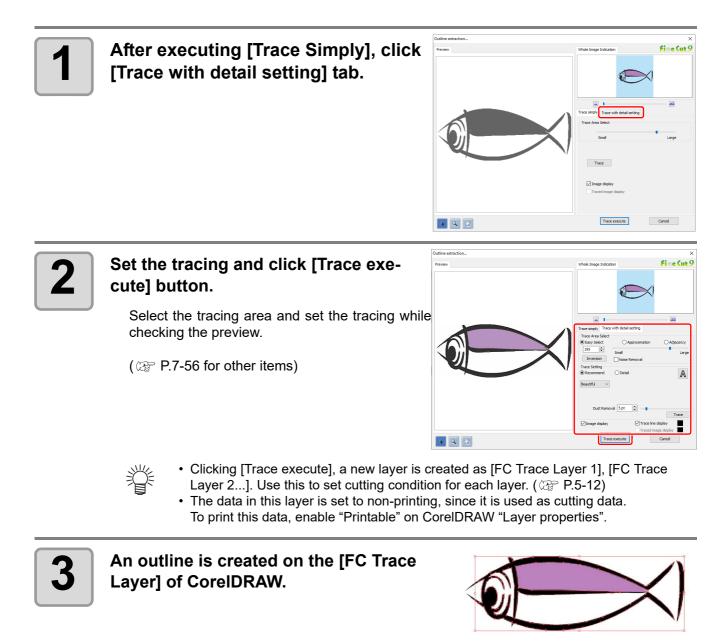


An outline is created on the [FC Trace Layer] of CoreIDRAW.



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.



Outputting to RasterLink

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



- To cut an object, set the path for printing in advance. (${\it C\!P\!P\!.\!4-\!16}$)



Start RasterLink.

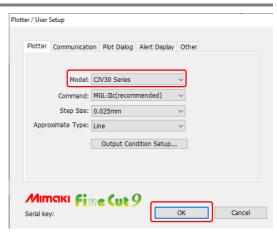
If there is no hot folder, create it on RasterLink. For details, see the RasterLink Reference Guide or the Installation Guide.



Click [Plotter / User Setup] button in theImage: The setup is the setup



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



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



🖷 🎢 🐻 ይ 🗸 圆 চা Click [Output to RasterLink] button in the FineCut Command Bars. 國品 😥 • When a hidden layer is found, the following error appears. (Important!) In this case, show or delete the layer. Object Error message Search 🙀 🗣 📋 Page 1 Layer 2 ٥, Mimaki FineCut \times Page 1 There is a hidden layer. FineCut cannot process the layer

OK

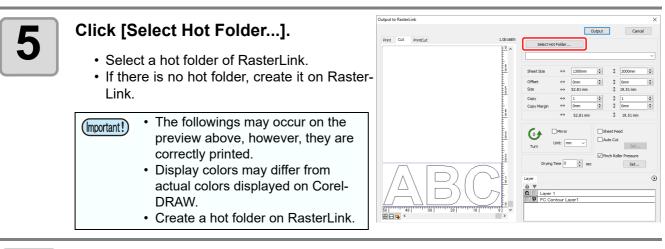
Layer 2

FC Trace Layer1

Show or delete the

hidden layer.

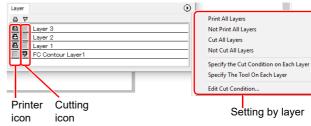
2,





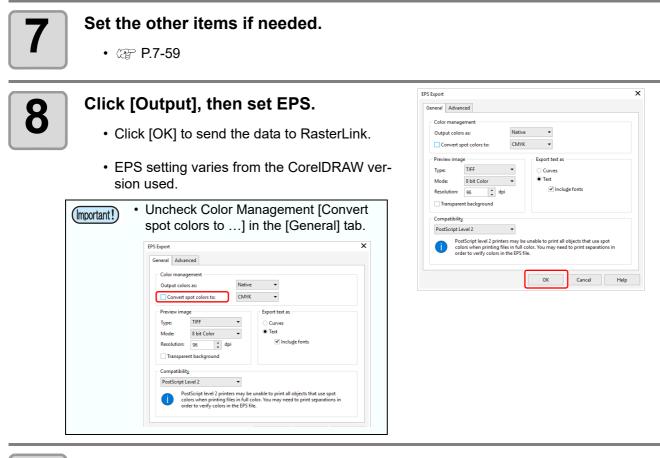
Select and set the layers to print or cut.

• P.4-14 "How to set cutting paths" for setting cut layers.



Setting by layer

ltem	Description
Printer icon	Click to put a mark on the printing layer.
Cutting icon	Click to put a mark on the cutting layer. • Output to RasterLink is possible when you select CG-FXII Plus, CG-AR, CFL-605RT, CF22-1225 which support ID Cut (P.5-16) and can produce multilayer printing plates. In this case, the cutting icon cannot be selected.
Setting by layer	Click () button and select [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each Layer]. Then, select the cutting condition or tools on the right column of the layer names.
 plotter pri with the re printing, a when CFL When onl ting layer If not setti Layer], it 	th the print and the cut are marked on the Layer screen shown above, the nts, and then cuts the object. If the printing layer has a register mark created egister mark creation of FineCut, it reads the register mark position after and cuts on the more accurate position. Note that cut marks cannot be applied 605RT or CF22-1225 is selected. y cutting is marked on the layer screen, include the register mark in the cut- to cut with the register mark loaded. ing [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each plots with the setting of the plotter. aced with the margin of 0.5mm around.
CJV300/1 the numb • When cre [Leave a rectangle (Activating • When print ister mark	ting with the register mark loaded, set [1Pt] on [MARK DETECT] of CJV30, 150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 or TPC as er of register mark detection. the register mark on the register mark creation of FineCut, uncheck rectangle as the cutting line]. If checked, the plotter cuts with a part of the missed. (@P.3-8) g [Outer Frame Cut] of Cut Condition screen is recommended.) hting type2 register mark (C), space between copies for at least the reg- c size. (@P.3-8)





Execute printing & cutting on RasterLink.

• For details, see the RasterLink Reference Guide.

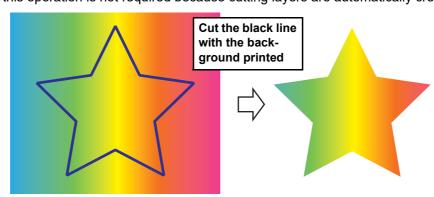
Δ

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.





Open an object on CorelDRAW.

• When the Object Manager is not displayed, put a check on [Object Manager (Object)] of [Window] - [Dockers] menu.





2

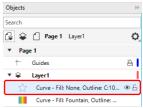
Click a path to be cut.

· The selected path is colored on the Object Manager (Object).



Object Manager or Object

or Object



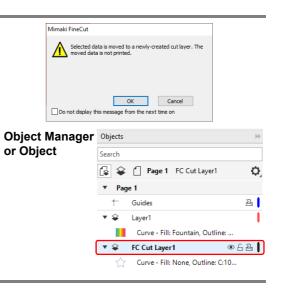
3

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



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".



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Outputting to the Trotec laser engraving machines

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

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

- Output cutting data directly from FineCut to the laser engraving machine.
- Use Trotec software to output cutting data.
 For cutting procedures, please download "Trotec Laser Cut Guide" from the Mimaki website (<u>https://mimaki.com/</u>).

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

Preparation (connecting to the laser engraving machine)

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



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

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



Install the virtual COM driver.

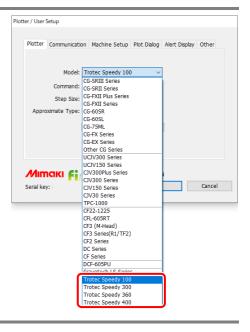


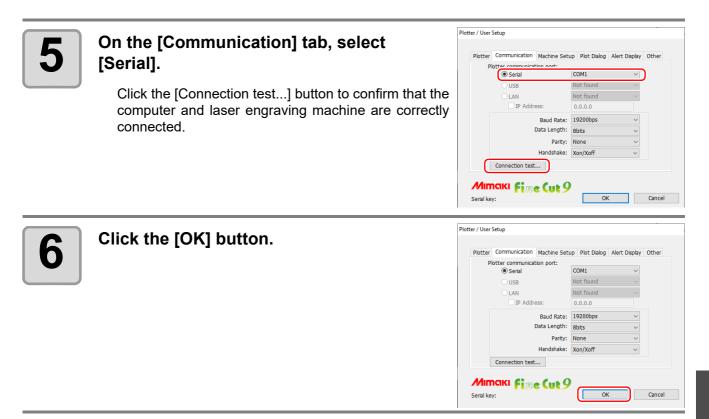
Connect the computer and laser engraving machine with a USB cable.



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

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



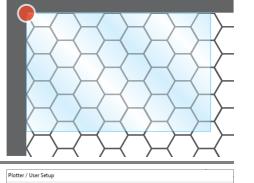


Output cutting data directly from FineCut to the laser engraving machine.

Adjusting the origin.



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



Plotter Communication Machine Setup Plot Dialog Alert Display Other

Origin ↔ 0.00 mm ţ 0.00 mm

Origin Adjustment

Mimaki Fine (ut 9



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

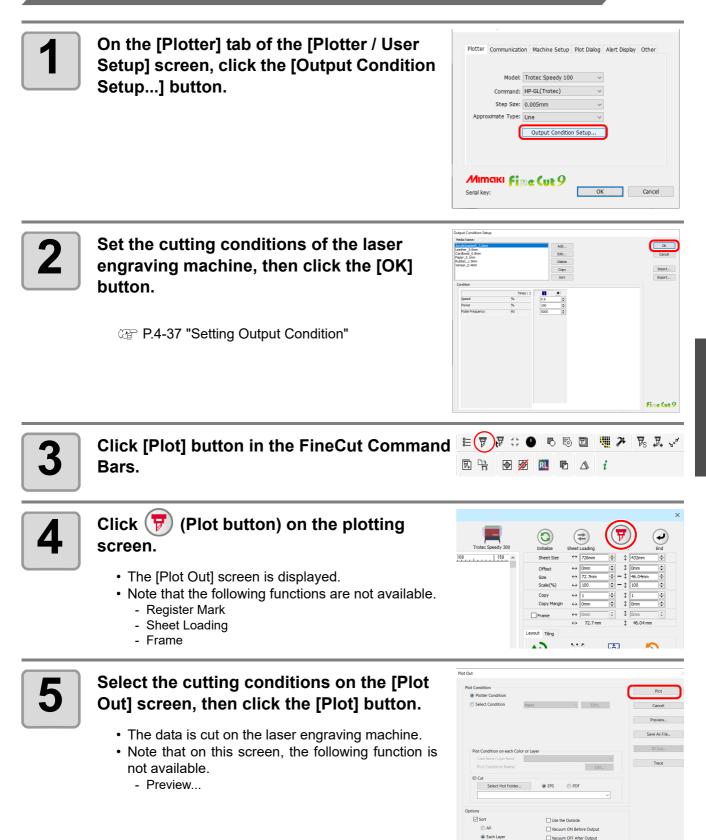
The position of the light pointer is acquired from the laser engraving machine and registered as the data origin.



Click the [OK] button.

Plotter	Communication	Machine Setup	Plot Dialog	Alert Display	Other
	Origin Adjustmen Origin) mm 🗧	c 0.00 mm	
Min Serial ke	ncıkı fi m	e (ut 9	OK		Cancel

Cutting



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

Printing.



Create the print data.

2

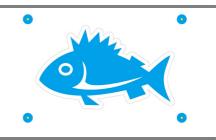
Create the cut data.

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



Create register marks in FineCut.

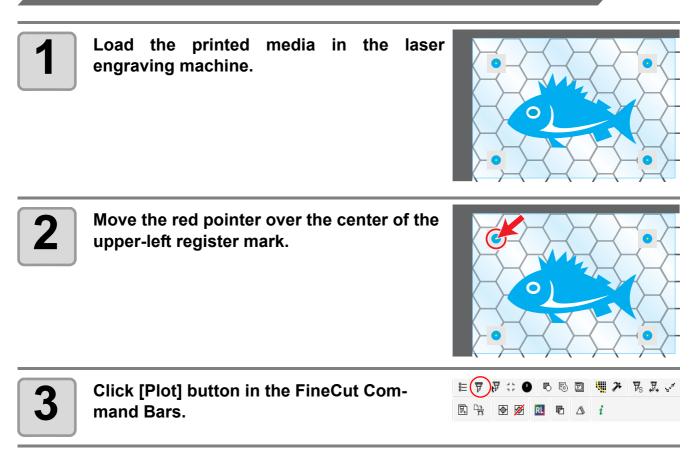
 CP P.3-24 "Making Register Marks" - "Trotec Speedy Series, Gravotech LS series, DCF-605PU (Digital coating machine)"

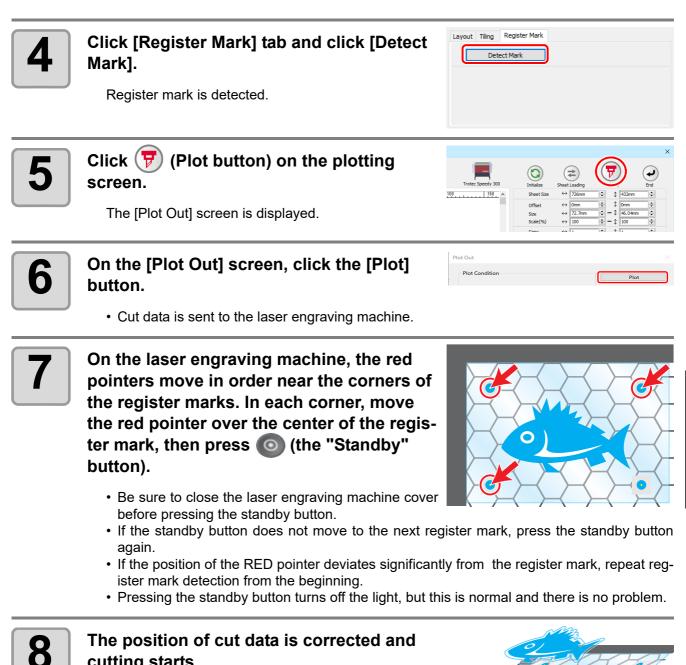




Print the print data with register marks.

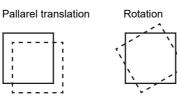
Cutting.



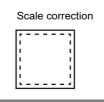


cutting starts.

• The shapes that can be corrected are as follows.



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







4-21

Outputting to a Gravotech laser engraving machine.

You can output cutting data from FineCut to a Gravotech LS series (LS100IQ, LS100Ex, LS100Ex_Energy, LS900, LS900XP, LS900Energy, LS900Edge, LS1000XP, LS_Energy8) and then perform cutting.

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

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

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

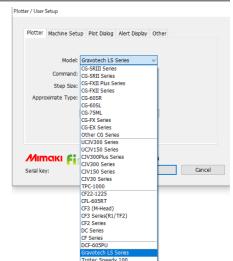
Preparation.

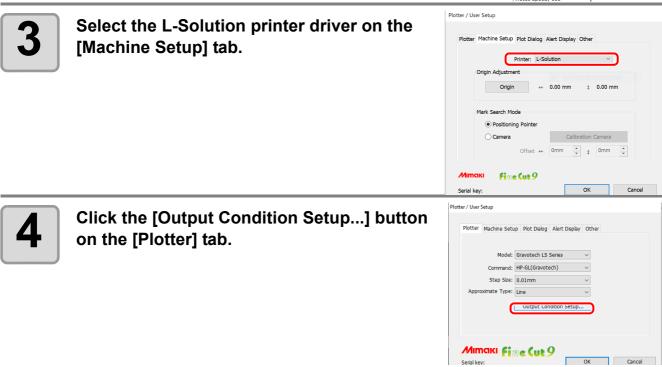
Connect and adjust the laser engraving machine.

Download the latest L-Solution driver from the Gravotech site <u>https://www.gravotech.co.jp/download_mimaki.php</u> and install it according to the manual on the site. You will also need to adjust the laser engraving machine after installation. Please refer to the manual on the same site for how to adjust the laser engraving machine.



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

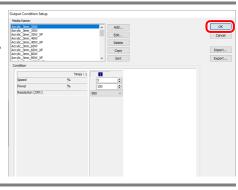






Set the cutting conditions of the laser engraving machine, then click the [OK] button.

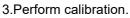
- @ P.4-37 "Setting Output Condition"
- @ P.7-24 "When Gravotech LS series is selected"



6

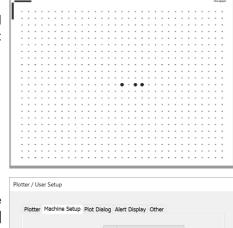
Select [Positioning Pointer] or [Camera] in [Mark Search Mode] on the [Machine Setup] tab.

- The following preparations are required when selecting [Camera]. (Only models with camera connected)
- 1.Install the camera driver.
- Download the latest camera driver from the Gravotech site
 <u>https://www.gravotech.co.jp/download_mimaki.php</u>
 and install it according to the manual on the same
 site.
- 2. Print the calibration grid.
- According to the manual in 1, print the calibration grid data on the calibration media (acrylic 2-layer board: black and white) with a laser.



• Click the [Calibration Camera] button on the [Machine Setup] tab of the [Plotter / User Setup] screen.

otter / l	User Setup		
Plotte	ter Machine Setup Plot Dialog Ale	ert Display Other	
	Printer: L-Solu	tion ~	
	Origin Adjustment		
	Origin ↔ 0	0.00 mm 🔅 0.00 mm	
	_		
1	Mark Search Mode		
	Positioning Pointer		
	Camera	Calibration Camera	
	Offset ↔	0mm 🔹 👌 0mm 🔹	
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Serial	l kav	OK Cano	el
Jena	n Ney.		



Origin

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Mark Search Mode

Serial key:

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Cancel

Outputting cut data from FineCut.

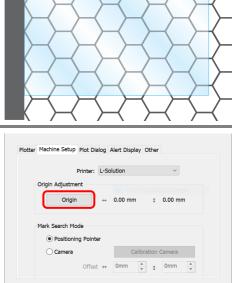
Adjusting the origin.



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



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



OK Cancel

Mimaki Fine (ut 9

Serial key:

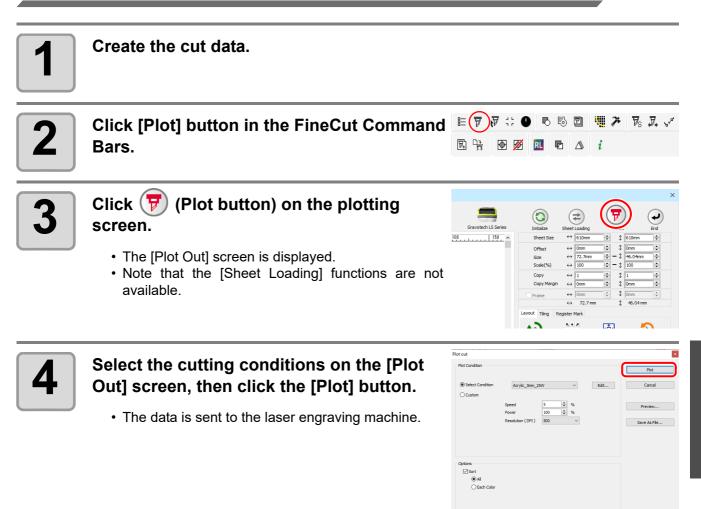


The position of the light pointer is acquired from the laser engraving machine and registered as the data origin.



Click the [OK] button.

Cutting





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

• The data is cut on the laser engraving machine.

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

Printing.



Create the print data.

Create the cut data.

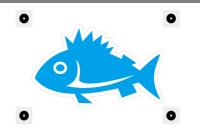
• @P.3-4 "Making a Frame (Cutting Line)"



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Create register marks in FineCut.

- When printing a register mark on media other than white, be sure to check [Fill around the register mark] in the [Register Mark Creation] dialog.
- Register marks created with FineCut9 version 1.2 or earlier cannot be detected by the camera. When detecting the register mark by the "Camera", create register marks again with FineCut9 version 1.3 or later.



• @P.3-24 "Making Register Marks" - "Trotec Speedy Series, Gravotech LS series, DCF-605PU (Digital coating machine)"



Print the print data with register marks.

Cutting.



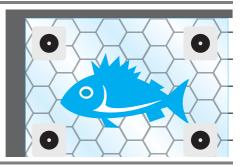
Select [Positioning Pointer] or [Camera] in [Mark Search Mode] on the [Plotter / User Setup] screen - [Machine Setup] tab.

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

 0.00 mm
\$ 0.00 mm
ibration Camera



Load the printed media in the laser engraving machine.





Press (1) (the "POSITIONING POINTER" button) on the laser engraving machine.



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





6

Mark].

Click [Plot] button in the FineCut Command 🖾 😤 🕑 📈 🔃 🖻 Bars.





Click (77 (Plot button) on the plotting screen.

• The [Plot Out] screen is displayed.

· Register mark is detected.



Plot Conditi

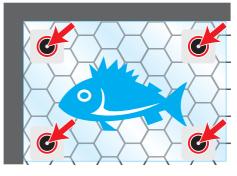


On the [Plot Out] screen, click the [Plot] button.

• Cut data is sent to the laser engraving machine.



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

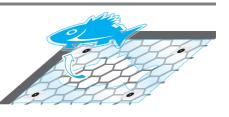


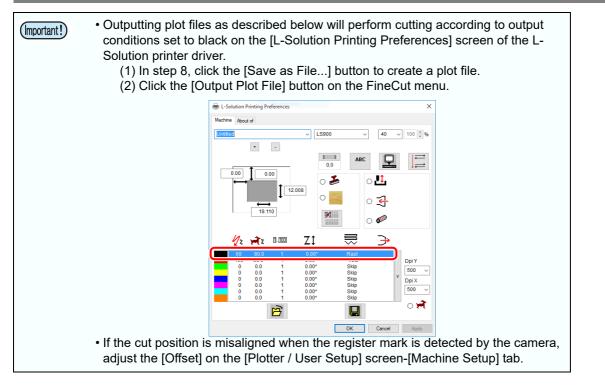
marks at the four corners are automatically detected by the camera.



Press 🚺 (the "START" button).

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





A top coat can be applied in accordance with the coating data configuration by outputting coating data to the DCF-605PU (digital coating machine).

The coating is applied as follows in accordance with the output conditions set.

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

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

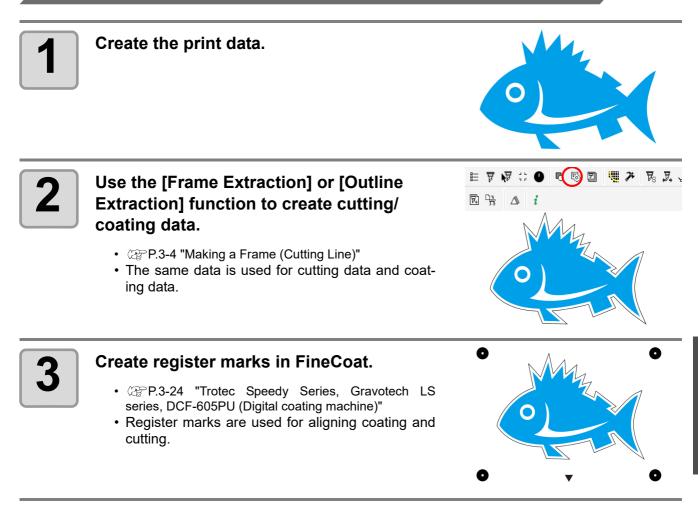
Preparation (Connect the digital coating machine)

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

Connect the digital coating machine to the	e PC using a LAN cable.
2 On the [Plotter] tab of the [Plotter / User Setup] screen, select "DCF-605PU" in [Model].	Plotter / User Setup Plotter Tommunication Machine Setup Plot Dialog Alert Display Other Model: DCF-605PU Command: G-Code
 The individual settings are as follows: (Fixed) Command: G-Code Step Size: 0.001mm Approximation Type: Line 	Approximate Type: Line Output Condition Setup Mimciki Filible Coct 9 Serial key: OK Cancel

3	Click the [Output Condition Setup] button.	Plotter / User Setup Plotter Communication Machine Setup Plot Dalog Alert Display Other Model: DCF-605PU ~ Command: G-Code ~ Step Size: 0.001mm ~ Approximate Type: Line ~ Output Condition Setup Serial key: OK Cancel
4	Set the output conditions for the digital coating machine, then click the [OK] but- ton. • @ P.4-37 "Setting Output Condition" @ P.7-25 "When DCF-605PU (digital coating machine) is selected"	Conductor datap Mach Name Mark Some Mark Some Mark Some Mark Some Deter Sont Conductor Deter Sont Conductor Process Name Name Name Sont Conductor Process Starfree Sont Sont
5	Click the [Connection test] button on the [Communication] tab. • Check that the digital coating machine is correctly connected to the PC.	Plotter / User Setup Plotter Communication Machine Setup Plot Dialog Alert Display Other Plotter communication port: Serial USB Minicipa Address: Connection test Serial key: OK Cancel
6	 Adjust the digital coating machine origin on the [Machine Setup] tab. Adjust by entering an offset value if the origin point for the coating is offset from the printing position. Setting range: -20.0mm to +20.0mm Default: 0.0mm If using a square jig, enter 10 mm × 10 mm. P.7-32 "When DCF-605PU (Digital coating machine) is selected" 	Plotter / User Setup Plotter Communicatio Machine Setup lot Dialog Alert Display Other Origin Adjustment ↔ Omm \$ \$ Omm \$ Minnacki Filme Coat 9 Serial key: OK Cancel
7	Click [OK].	Plotter / User Setup Plotter Communication Machine Setup Plot Dialog Alert Display Other Origin Adjustment ↔ Omm © \$ Omm © Mimocki Filme Coct 9 Serial key: OK Cancel

Creating and printing data.





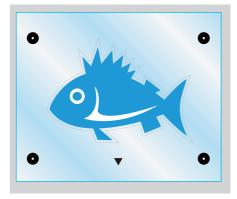
Print the data.

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

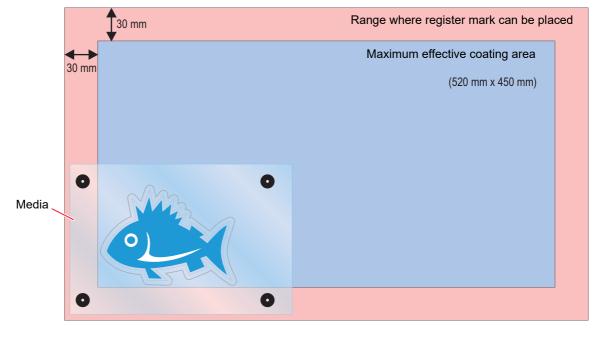
Coating.

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





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



2

Click [Plot] button in the FineCoat menu.

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

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



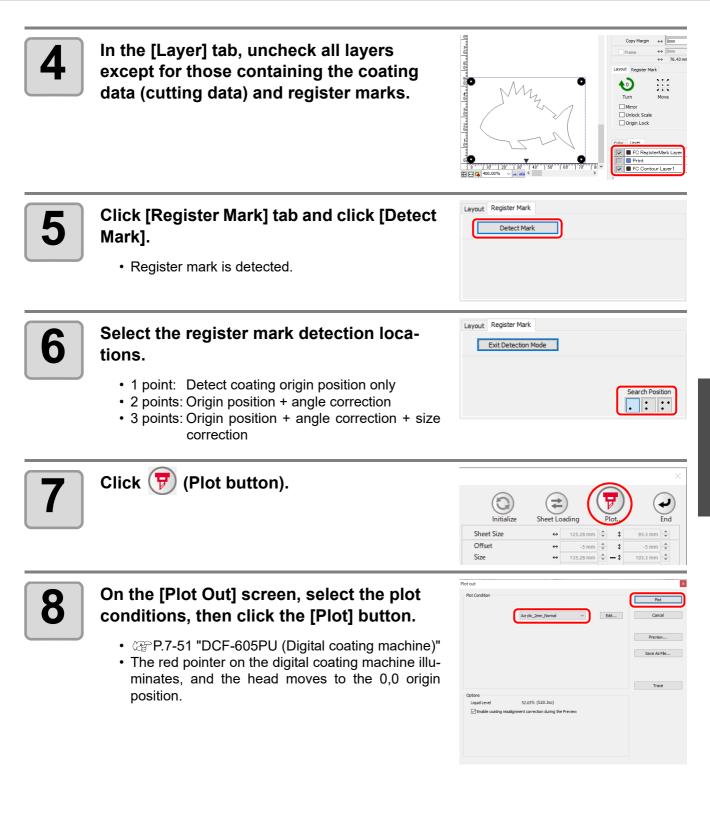
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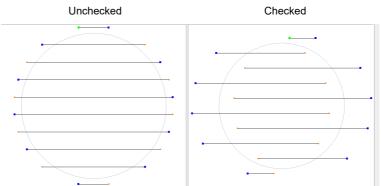
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- [Liquid Level] is displayed in [Options].
- Checking [Enable coating misalignment correction during the Preview] displays the filling lines based on [Misalignment Correction] when [Preview...] is clicked.



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

Close Deskay Setting Cutting Direction Antidochaise Clockasise Start Position Direction Move Cutting Order Tool Position Shaw Topiqual
Simulation

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

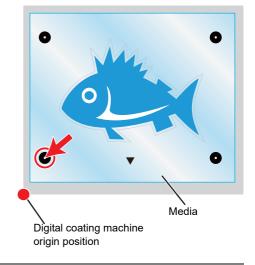


A message to adjust the atomized air pressure appropriately to suit the coating thickness appears. Adjust to the atomized air pressure indicated.



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

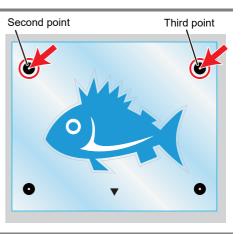
• If one register mark detection is set, top coat is applied at the coordinates when the [ENTER] key is pressed.





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

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



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

Cutting.

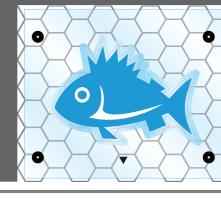
Laser cut using a laser engraving machine.

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

 • (2) P.4-16 "Outputting to the Trotec laser engraving machines"
 - @ P.4-22 "Outputting to a Gravotech laser engraving machine."



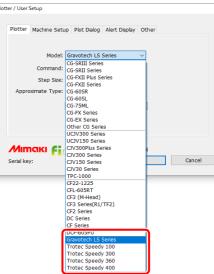
Set the coated media at the required position in the laser engraving machine.

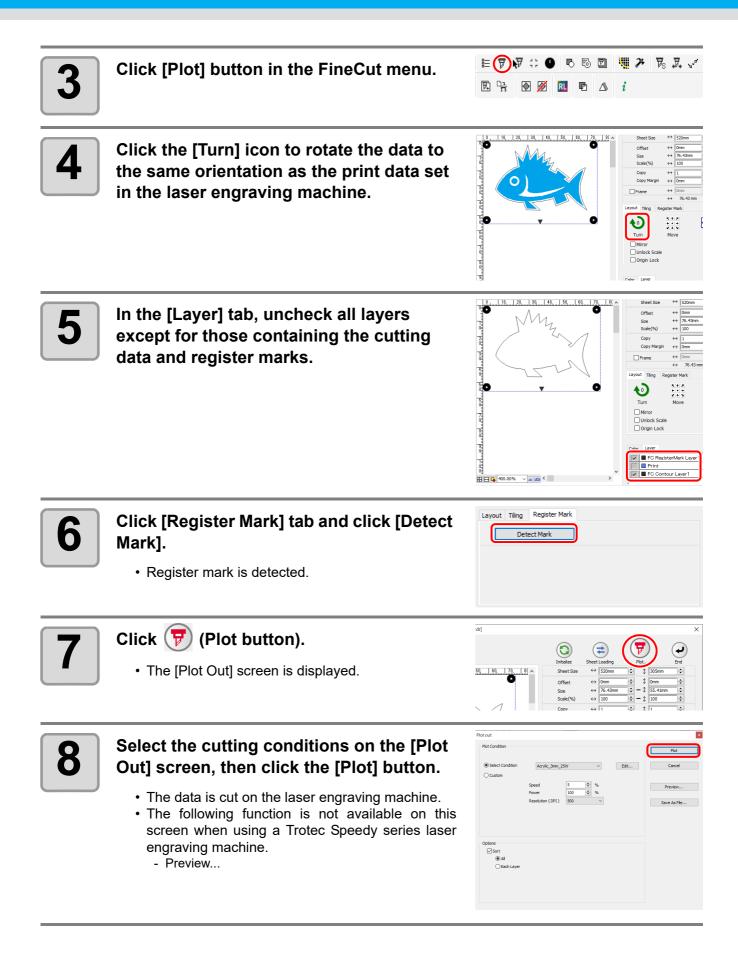




Select the laser engraving machine to be used on the [Plotter] tab on the [Plotter / User Setup] screen.

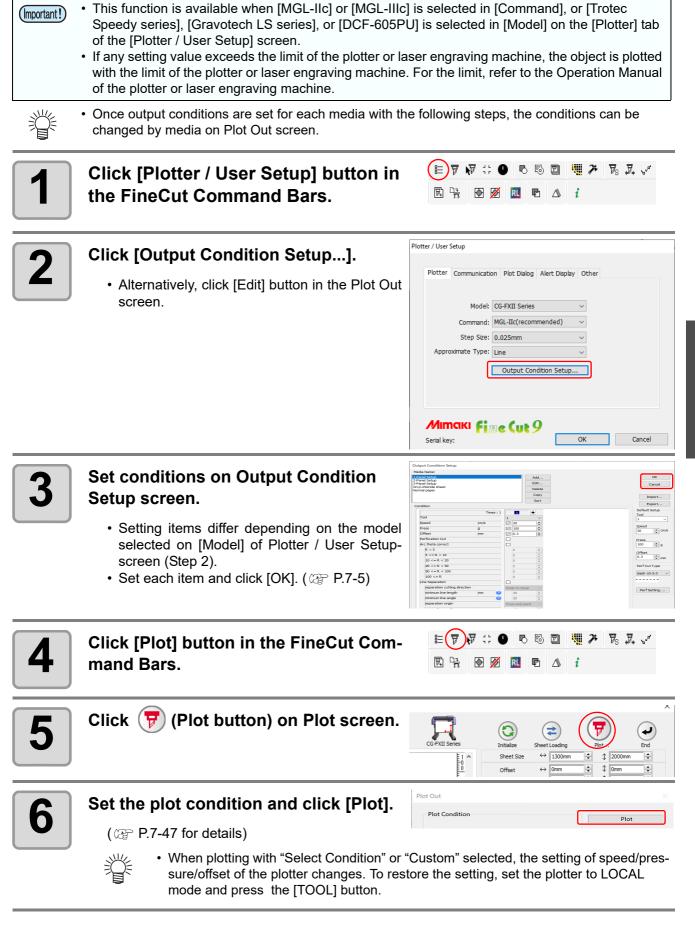
• Select a Trotec Speedy series or Gravotech LS series model.





Setting Output Condition

Output condition can be set by the media used.



Advanced operations - from FineCut Command Bars

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

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

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

Cutting with the line separated

Condition

Tool

Speed

Press

Offset

Arc theta correct R < 5 5 <= R < 10

10 <= R < 20 20 < = R < 50 50 <= R < 100

100 <= R

minimum line length

minimum line angle

separation origin

eparation positi

ine Separation separation cutting Times : 3

cm/s

mm

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1

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Ends To I

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om end

1	Select an object on CorelDRAW.	
2	Click [Plotter / User Setup] button in the FineCut Command Bars.	▐▋₽₩₩₽₽®® ₩ ₽₽₩₽ ℝ₩®®®®®Δi
3	Click [Output Condition Setup].	Plotter / User Setup Plotter Communication Plot Dialog Alert Display Other Model: CF2 Series Command: MGL-IIC(recommended) ~ Step Size: 0.025mm ~ Approximate Type: Spline Output Condition Setup Serial key: OK Cancel
4	Set the line separation. After setting, click [OK].	Cancel Import Export Check the Separation cutting

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

Default Setup

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÷ cm/s

Tool

Speed

Press 100 ÷ 9

Offset 0.3 . ₽ mm

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1

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3

+ -

+ + + + + 1

Ends To

30

30

From end point

2

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inds To

30

30

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ltem	Description				
Line Separation	Check this.				
separation cutting direction	Select cutting direction of a separated line. Select according to the blade used. (@P.4-41)				
minimum line length (Default: 30 mm (recommended))	Set the minimum length of the line to be separated. Only the longer line than this setting is separated, and the shorter one is not separated. (If separating a short line, it may not be able to cut finely.)				
minimum line angle (Default: 30 degrees (recommended))	Set the minimum angle of the line to be separated. If the cutting line is inflected more than the set angle, the line is separated not the point to be cut too much. (However, if it is deter- mined as outside of the object, it is not separated.)				
	If inside (grey part) is used 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 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				
separation origin	Set the origin position of the separating line.				
ltem	Description				
separation position	Set the separating position of lines as a distance from [Separation origin].				



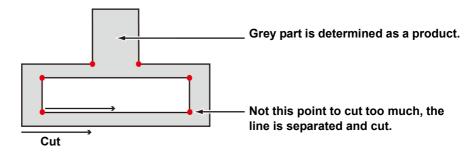


Set whether using the outside of the object or not on the Plot Out screen, and click [Plot].

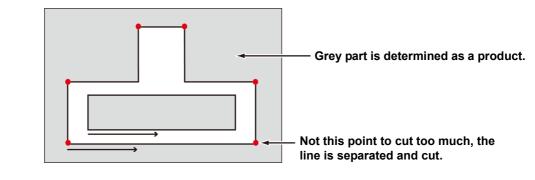
• The plotter determines as below depending on the setting, and cuts with the line separated.

				Plot
Plotter Condition				
Select Condition	CUT1-Panel Setup	~	Edit	Cancel
Custom	Tool	1	~	
	Speed	20	¢ cm/s	Preview
	Press	100	‡ g	Save As File
	Offset	0	‡ mm	Save As rile
stions				
tions ☑ Sort		the Outside)	
	Use	e the Outside)	

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



If checked on [Use the Outside]



The blade shapes and the setting of line separation

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

For more details regarding adjusting the eccentricity, refer to the Operation Manual of the main unit.

Blade used	Product Code	Shape		utting direction the line separated (@P.4-38)
Carbide, 17°	SPB-0065		, ,	To Inner ncut part)
			Start point Start point	Ends To Inner Blade
		cutting direction	Adjust the value not the horizontal/vertical lines of the 	ĴĴ.
Carbide, 30°	SPB-0045	Л	Test pattern A to protrude or	
Carbide design cut- ter, 30°	SPB-0051		gap.If protruded:Enter the protruded value by	
High-speed steel blade 30°	SPB-0043		negative value. • If gapped:	
High-speed steel blade 30° 7mm	SPB-0048		Enter the gapped value by positive value.	
Titanium-coated, 30°	SPB-0047	cutting direction	By adjusting as above, the horizontal lines overlap at the end point.	
Carbide, 45°	SPB-0046	Δ		
High-speed steel blade 45°	SPB-0044			
Titanium-coated, 45°	SPB-0008	cutting direction		

Δ

Blade used	Product Code	Shape	Adjusted eccentricity value and Test cut pattern	Cutting direction with the line separated (@P.4-38)
Carbide, 2°	SPB-0064	cutting direction	End point Start point Start point Start point Adjust the value to meet the horizontal lines of the Test pattern A at the end point. If lines overlap: Enter the overlapped value divided by 2 by positive value. If gapped at the end point: Enter the gapped value divided by 2 by negative value. By adjusting as above, the horizontal lines protrude from the vertical line at the start point.	In to out (No uncut part because the blade top comes to the end point.)

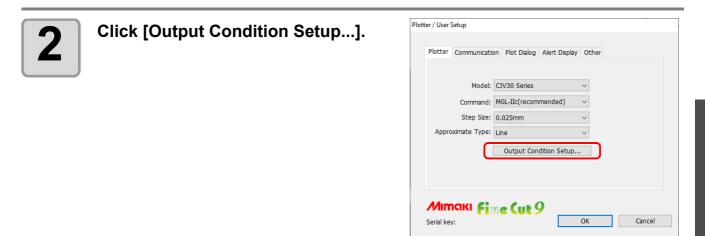
Perforation Cut Setting

(Important!)

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

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







Set the perforation cut.

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



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

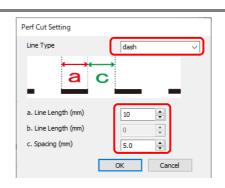
edia Name:			
per		Add	OK
rdboard_5mm_VCut dia 1		Edit	
dia2			Cancel
dia3		Delete	
per-1 rdboard_5mm_VCut-1		Сору	Import.
dia 1-1		✓ Sort	
ondition			Export.
	Times : 1	1 +	
Station		A Station V	Machine In
Tool		PEN ~	
Work Thickness	mm	0	
Speed	cm/s	30 🔹	
Z Position	mm ₍₂₎	-1 🔹	
Press	g	100 🜩	
Flute Direction	,		
Z Position	mm	0	
Pressure Level	,	16	
Angle		45 \$	Perf Cut Type
Perforation Cut			dash-10-5.0
v cut i ype		Double ~	uusii 10 5.0
a. V Cut Z Uncut Value	mm	1	
b. V Cut Width to Fold	mm	V 1 ÷	Perf Setting
Arc / V Cut theta correct			Peri Setung
R < 5 / V Cut		0	

4	On the [Perf Cut Setting] screen, click [Add].	Perf Cut Setting Perf Cut Name Defoult (adm-10-5.0 desh-dids-10-50.0 Delete Delete
		Line Type dash-dot a cb a. Line Length (mm) 10 b. Line Length (mm) 10 c. Spachg (mm) 5.0
		OK

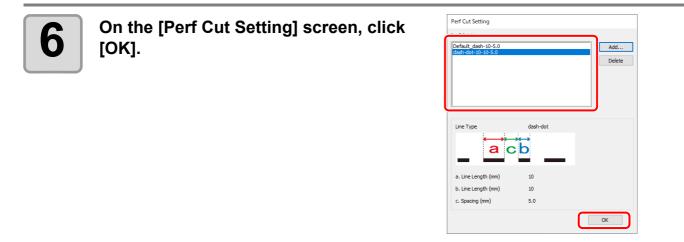


On the [Perf Cut Setting] screen, add new perforations.

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



Item	Description	Default
Line Type	Select dash or dash-dot. Ÿ Dash Ÿ Dash-dot	Dash
a. Line Length	Set the length to cut. Range: 5 to 150 mm	10mm
b. Line Length	Set the length to cut. Range: 5 to 150 mm	10mm
c. Spacing	Set the length to leave. Range: 0.5 to 5 mm	5mm





8

9

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

	Output Condition Setup			
	Media Name:			
	Paper	Add	ок	
	Cardboard_5mm_VCut		<u> </u>	
	Media1 Media2	Edit	Cancel	
	Media3	Delete		
	Paper-1 Cardboard_5mm_VCut-1	Сору	Import	
	Media 1-1	✓ Sort		
	Condition		Export	
		Fimes : 1 1 +		
	Station		Machine Info	
		H Station -		
	Tool	PEN ~		
	Work Thickness mm			
	Speed cm/s	30		
	Z Position mm	-1 🜩		
	Press g	100 ≑		
	Flute Direction			
	E roston min	0		
	Pressure Level	16 🗘		
	Angle	45 \$	Perf Cut Type	
	Perforation Cut			
	V Cut Type	Double	dash-10-5.0 V	
	a. V Cut Z Uncut Value mm			
		1 *		
			Perf Setting	
	Arc / V Cut theta correct			
menu.	[Plot] button in If there are any ob- that are not to be concessary objects a mark data, and ther Selected Path] butt	ects on Illustrator ut, select only the and the register n click the I Plot		
		etting for each onditions for the) • •

• CPP.5-12 "Setting Output Condition on Each Color/Layer"

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10	7 Click (Plot button).	Initialize Sheet Loading Sheet Size ↔ 1300 mm ⊕ Offset ↔ 0 mm ⊕
11	Click [Preview] on the [Plot Out] screen. The [Preview] screen is displayed. 	Plot Out × Plot Condition Plot Select Condition Plot Cancel Preview. Save As File.
12	Confirm that the [Preview] screen shows the correct perforation cut type and then click [Close].	Provine X
	 @P.5-26 "Checking the Cutting Process by Preview" The [Preview] screen will then close. 	Tool Position
13	Set the plot conditions and then click [Plot].	Plot Condition Plot

• For details, refer to @ P.7-47.

CHAPTER 5 Advanced operations-from Plot Screen



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

FineCut command									
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Scaling an Object	5-2
Cutting an Object Multiple Times (Copy)	
Dividing and Cutting an Object (Tiling)	5-5
Cutting an Object on Each Color	5-7
Cutting an Object on Each Layer	5-9
Setting the Output Order/Tool on Each Color/Layer	5-10
Setting Output Condition on Each Color/Layer	5-12
Making Effective Use of Sheet	
Setting Connection to the Plotter	5-15
Link Cut and Print (ID cut)	5-16
Setting Head Position after Plotting	5-24
Checking the Cutting Process by Preview	5-26
Creasing & Cutting (CG-AR series)	5-28
X-Direction Division Cutting (CG-AR series)	5-30
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(R10-head))	5-44
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Efficient Cutting Using the Toggle Cut Function (CFX se	eries)
	5-50

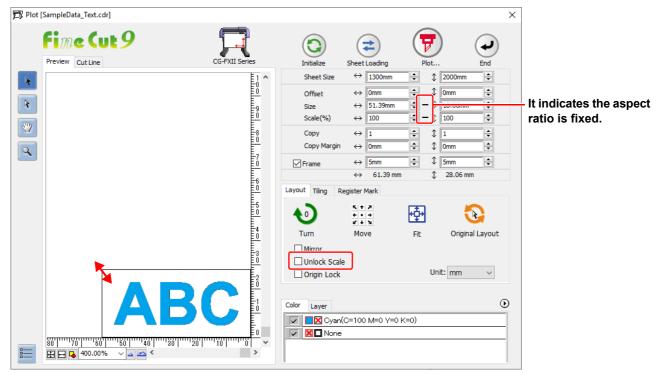
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FineCoat command ≣ (♥)♥ :: ● ◎ ◎ ◎ ◎ ₩ ₽ ♥ % 못 √

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

Turn on the [Unlock Scale] checkbox on the Layout tab. Scale an object as dragging the left or right corner or the top or bottom corner of the object.

D, Plot	[SampleData_Text.cdr]					×
	Fine Cut 9	CG-FXII Series	Initialize	Sheet Loading	Plot	(J) End
*		CG-FXII Series	Sheet Size Offset Size Scale(%) Copy Copy Margin Frame Layout Tiling Re Uniock Scale Origin Lock	$\leftrightarrow 1300mm$ $\leftrightarrow 65.39mm$ $\leftrightarrow 65.39mm$ $\leftrightarrow 127.24$ $\leftrightarrow 1$ $\leftrightarrow 0mm$ $\leftrightarrow 75.39 mm$ $egister Mark$ $x \neq 7$ $x + 2$ $Move$	 	m ÷ nm ÷ ÷ ÷ 2 mm ginal Layout
	80 170 60 50 40 30 ₩ ₩ ₩ ₩ 400.00% ~	20 10 10 0	None None			



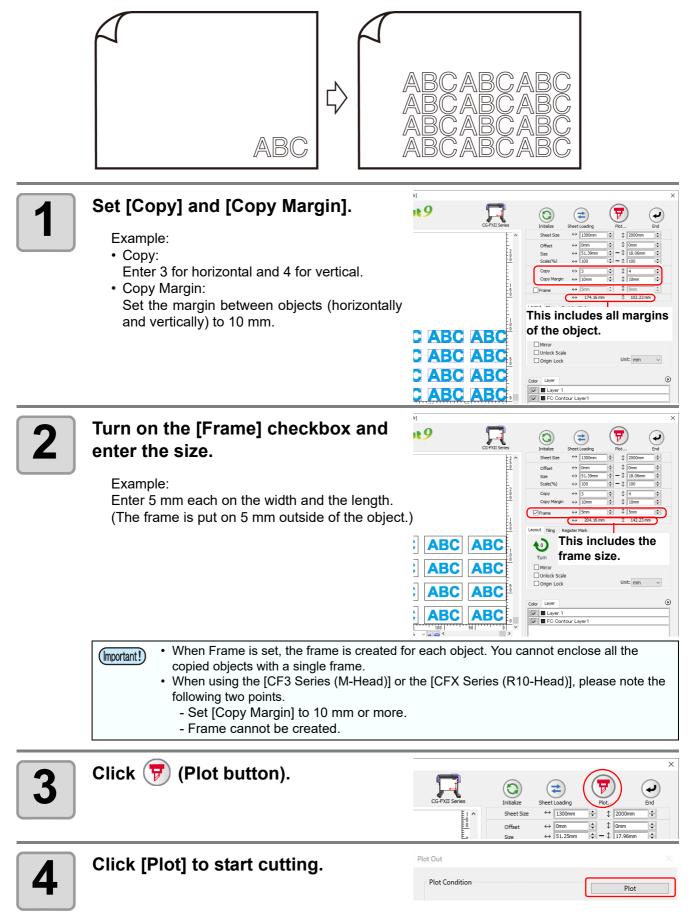
- To scale an object with the aspect ratio retained, check [Unlock Scale], and then drag the object while holding down the [Shift] key of the keyboard.
- To scale an object with the changed aspect ratio retained, change the width and length separately, and then turn off the [Unlock Scale] checkbox.

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

	Sheet Size	↔ 1300mm 🛓	\$ 2000mm ÷
	Offset	↔ Omm 📥	\$ Omm 😫
$\left(\right)$	Size	↔ 102.77mm 🚔	\$ 18.06mm ≑
	Scale(%)	↔ 200 ≑	\$ 100 €
	Сору	\leftrightarrow 1	\$ 1 ♣
	Copy Copy Margin	$\begin{array}{c} \leftrightarrow \\ 1 \\ \bullet \\ \hline 0 \\ mm \\ \bullet \end{array}$	↓ 1 + ↓ 0mm +
E		·	

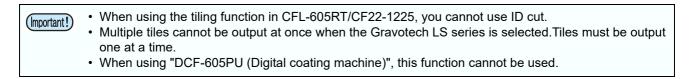
Cutting an Object Multiple Times (Copy)

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



Dividing and Cutting an Object (Tiling)

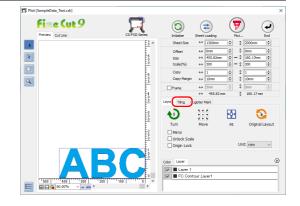
To create an object larger than the sheet width (signboard, etc.), divide and cut the object with Tiling. In this section, each divided object is called "Tile".

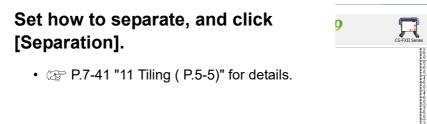


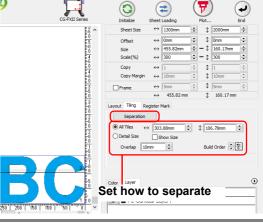


2

Click [Tiling] tab.



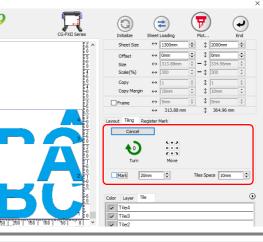






Divided objects are displayed. Set the tile position or others.

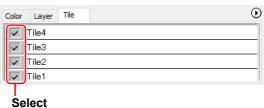
• @ P.7-41 "11 Tiling (P.5-5)" for details.





Select tiles to cut from the tile list.

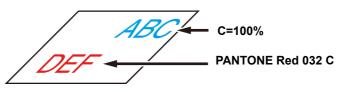
• You cannot output multiple tiles at once when a Gravotech LS series is selected. Output one tile at a time.



5 Click (Plot button).	CG-FXII Series Initialize	Sheet Loading Plot. End ↔ 1300mm ‡ 2000mm ÷ ↔ 0mm ‡ 17.96mm ‡
6 Click [Plot] to start cutting.	Plot Out Plot Condition	Plot

Cutting an Object on Each Color

If an object consists of multiple colors on CorelDRAW, 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.



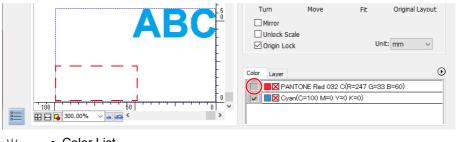
Click [Plot] button in the FineCut Command Bars.

	v :: •		5	đ	ጫ ን	$\overline{V}_{\!\mathrm{S}} \hspace{0.1cm} , \overline{V}_{\!\!\! \bullet} \hspace{0.1cm} \sqrt[4]{}$
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Uncheck the color set of "DEF" on the example above.

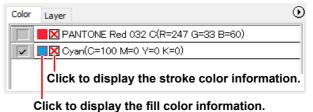
• The object "DEF" disappears from the cutting area.

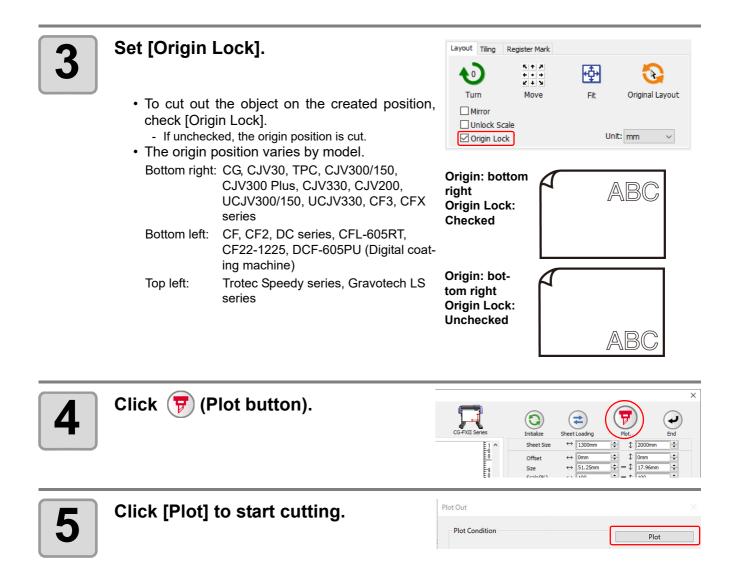


Color List

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.

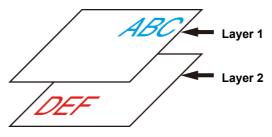
To specify the output condition, click the \odot button on the upper right of the list.





Cutting an Object on Each Layer

If an object consists of multiple layers on CoreIDRAW, 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.





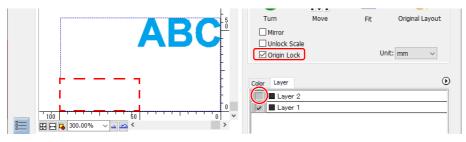
Click [Plot] button in the FineCut Command Bars.

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

• The object "DEF" on the layer disappears from the cutting area.



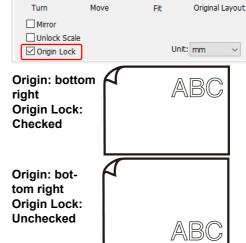


Set [Origin Lock].

- · To cut out the object on the created position, turn on the [Origin Lock] checkbox. - If unchecked, the origin position is cut.
- The origin position varies by model. Bottom right: CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200,

series

UCJV300/150, UCJV330, CF3, CFX series Bottom left: CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digital coating machine) Top left: Trotec Speedy series, Gravotech LS



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Setting the Output Order/Tool on Each Color/Layer



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

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

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

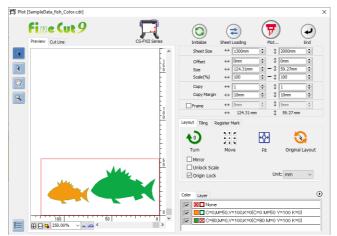
In CF, CF2, DC, CF3 series, CFL-605RT and CF22-1225, you can cut and make a ruled line at one time by specifying tools on each color or layer.

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

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

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

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







Drag the red in the color list to the bottom.

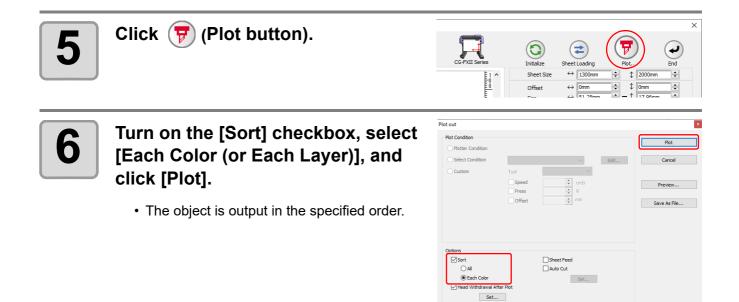
Color	Layer	\odot
	C=0,M=50,Y=100,K=0(C=0 M=50 Y=100 K=0)	
	C=80,M=0,Y=100,K=0(C=80 M=0 Y=100 K=0)	
	None].



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







Setting Output Condition on Each Color/Layer

(mportant!) • When using "Gravotech LS900" or "DCF-605PU (Digital coating machine)", this function cannot be used.

Output condition can be set on each color or layer.

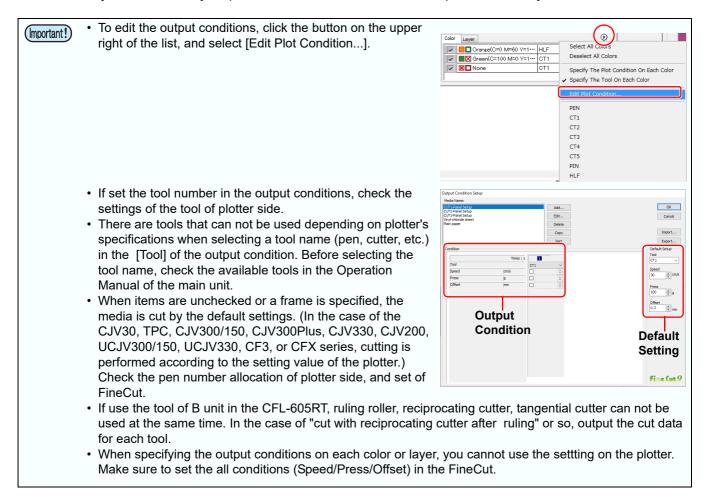
For a fine object or small characters, create an object on each color or layer, and set the appropriate output condition (lowering cutting speed, etc.) for each. The objects can be cut finely.

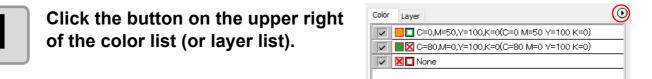
For the CF, CF2, DC, CF3, CFX series, the CFL-605RT, and the CF22-1225, it is possible to cut and crease at once by specifying the plot conditions for each color or layer.

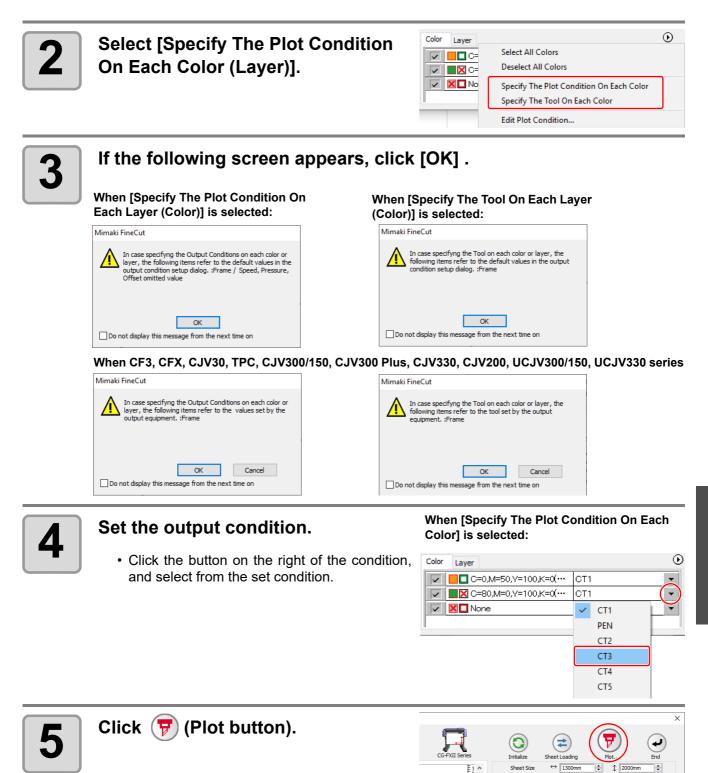
With the CG-AR series, specifying tools for individual colors or layers causes plotting/cutting/creasing to pause when the tool needs to be changed, and a message to replace the tool appears on the main unit display. Replace the tool as directed by the message. Note that the message appears only when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

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

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









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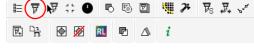
Offset

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.

D Plot [SampleData_Text.cdr]					×
	Fine Cut 9	CG-FXII Series	Initialize	Sheet Loading	Plot	
*			Sheet Size Offset Size Scale(%) Copy	$\begin{array}{c c} \leftrightarrow & \hline 1300 \text{mm} \\ \leftrightarrow & \hline 0 \text{mm} \\ \leftrightarrow & \hline 55.34 \text{mm} \\ \leftrightarrow & \hline 100 \\ \leftrightarrow & \hline 1 \end{array}$		
٩			Copy Margin	← 10mm ← 55mm ← 55.34 mm egister Mark		÷
			Turn Mirror Unlock Scale Origin Lock	Move	Fit Origin	al Layout
					100 M=0 Y=0 K=0) C=0 M=100 Y=100	• K=0)

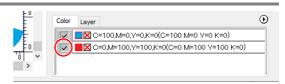






Hides objects that are not plotted.

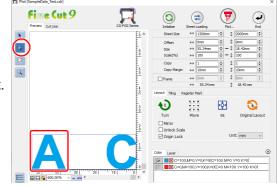
 In the example on the right, uncheck the red color on the [Color] tab.
 The letter "B" disappears.





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

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





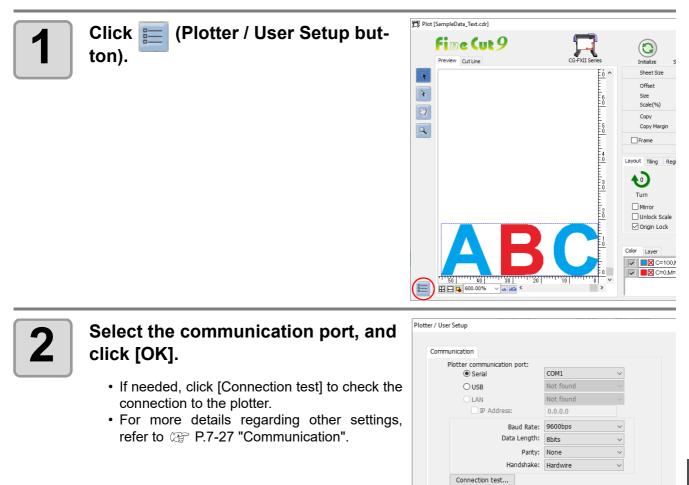
Drag the selected object to the desired position.

• 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.



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Serial key:

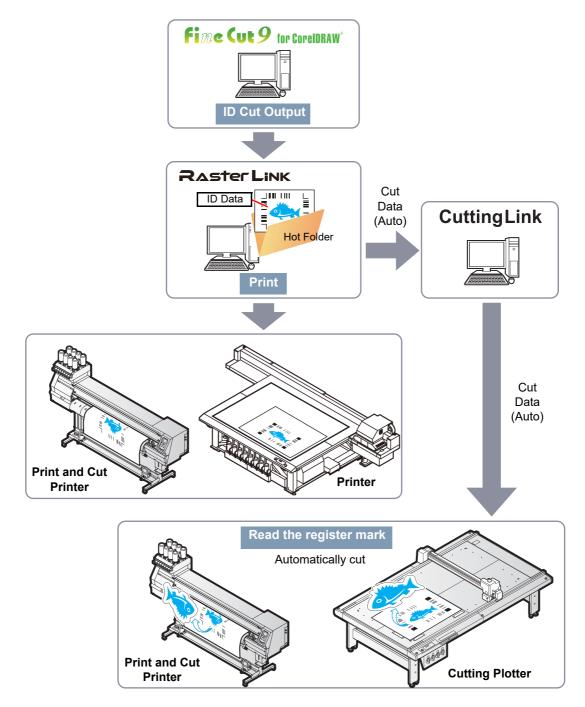
ок

Cancel

Link Cut and Print (ID cut)

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

• ID Cut Operation Flow



Differences from the [Output to RasterLink] function

When using the CFL_605RT, CF22-1225, or CFX series for cutting, you can add complex cutting conditions that cannot be set with RasterLink (such as Specify Cutting Start Position \Im P.6-3, Specify Cutting Direction \Im P.6-5, Multiple Cutting, and Cutting with Lines Separated \Im P.4-38).

Preparation

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

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

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



Install CuttingLink.

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



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

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



Start RasterLink and connect to CuttingLink.

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



Check that CuttingLink is started.

5

Check





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

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

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

	communication	on Plot Dialog Alert Dis	buy bench	
	Model:	UCJV300 Series	~	
	Command:	MGL-IIc(recommended)	~	
	Step Size:	0.025mm	\sim	
Appro	ximate Type:	Line	\sim	
		Output Condition Set	up	

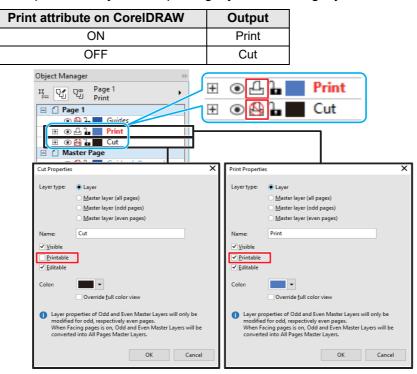
Create data

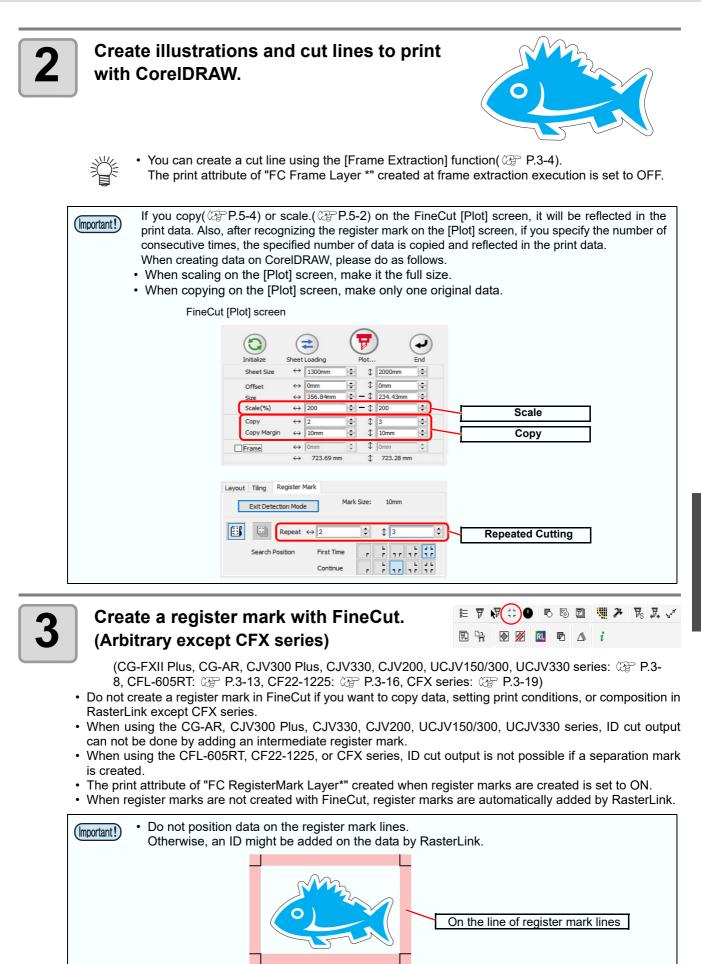
Create data with CorelDRAW.



Set the layer attribute.

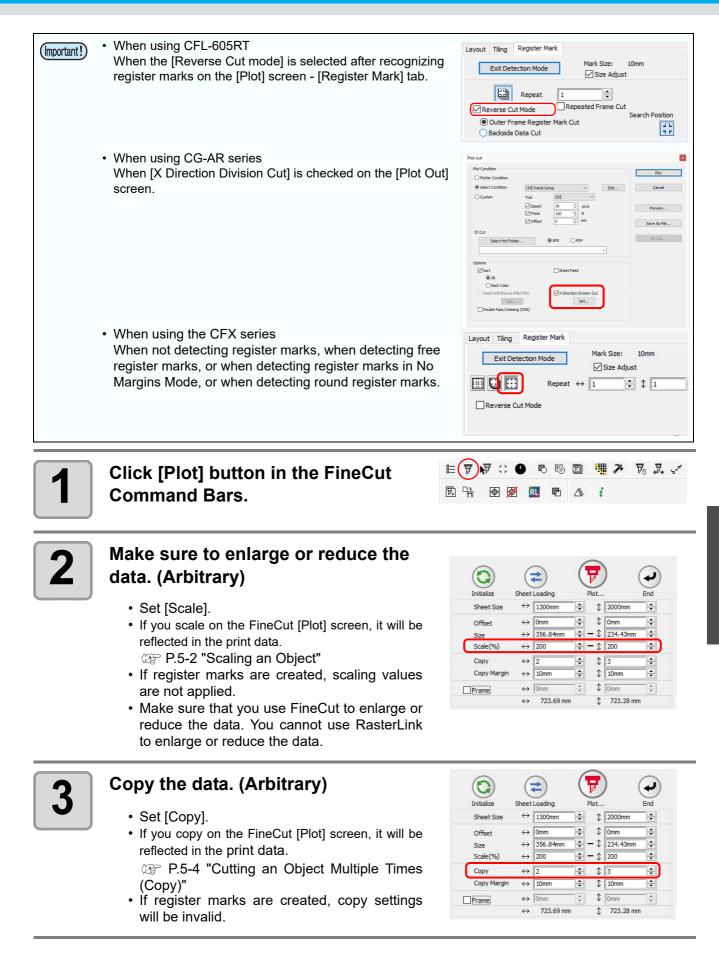
• To output smoothly, set the printing layer and cutting layer beforehand.





ID Cut Procedure

(mnortant)	D cut can not be performed when the following functions	are used.
(Important!)	When the [Separation] on the [Tiling] tab of [Plot] Screen is	Layout Tiling Register Mark
	used.	Separation
		O Detail Size
		Overlap 2mm 💼 Build Order ► 字
	When register marks are recognized by adding [Intermediate Registration Marks].	Register Mark Creation
		Mark Shape
		Mark Size (5-40mm)
		Line Width 0.6mm
		Leave a rectangle as the cutting line
		Put a print direction mark
		Add the pattern information
		Direction ↔ \$
		Count 2
		OK Cancel
	When register marks are recognized by adding [Mark Separation].	Register Mark Creation
	Separation].	Mark Shape
		Mark Size 10mm 💭 🔳
		Recommend Mark Size: 4mm
		Leave a rectangle as the cutting line
		Put a print direction mark Fill around the register mark
		Mark Separation
		Direction 🗘
		Count 3
		OK Cancel
	When [Origin Lock] is set to OFF on the [Layout] tab of [Plot] Screen.	Layout Tiling Register Mark
	ocieen.	🕹 👯 🔂 🗞
		Turn Move Fit Original Layout
		Unlock Scale
•	When [Frame] is added in [Plot] Screen.	Copy ↔ 1 ÷ 1 ÷
		Copy Margin \leftrightarrow 10mm \diamondsuit 10mm \diamondsuit
		✓ Frame ↔ 5mm ♀ \$ 5mm ♀
		↔ 200.04 mm
	When other than 4 points are specified [Search Position] on	Layout Tiling Register Mark
	the [Register Mark] tab of [Plot] screen.	Exit Detection Mode Mark Size: 10mm
		Image: Book of the second s
		Search Position First Time
		Continue





Set [Copy] and [Copy Margin].

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

U	6	÷	1	e l	/	•
Initialize	Sheet	Loading	F	Plot	0	End
Sheet Size	\leftrightarrow	1300mm	÷	\$	2000mm	÷
Offset	\leftrightarrow	Omm	÷	\$	Omm	÷
Size	\leftrightarrow	356.84mm	- ÷	- \$	234.43mm	•
Scale(%)	\leftrightarrow	200	÷.	- \$	200	- ÷
Сору	\leftrightarrow	2	-	1	3	-
Copy Margin	\leftrightarrow	10mm	÷	\$	10mm	÷
Frame	\leftrightarrow	0mm	-	\$	0mm	- A

Layout Tiling Register Mark

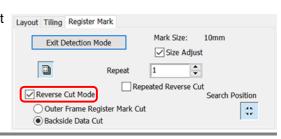
Detect Mark

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

(CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV150/300, UCJV330 series: @ P.3-27, CFL-605RT: @ P.3-43, CF22-1225:

- (2) P.3-59, CFX series: (2) P.3-65)
- When using the CFL-605RT, if [Reverse Cut Mode] is selected, ID cut can not be performed.





Click 큣 (Plot button).



Plot Out



Click [Select Hot Folder...].

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

(Important!)	 If there is no hot folder, create it on RasterLink. The folder created from the [Create a new folder] button on the folder reference screen does not work as hot folder.

Select Condition	CUT1-Panel Setup	~		Edit	
Custom	Tool	1	1 ~		
	Speed		20 🗘	cm/s	
	Press	1	00	g	
	Offset		0	mm	
Plot Condition on each (Color or Laver				
Color Name / Layer Name					
Plot Condition Name				Edit	
D Cut Select Hot Folde	er 💿 EPS	DF		~	
Select Hot Fold	er 🔘 @ EPS	S O PDF		~	
Select Hot Fold				~	
ID Cut Select Hot Fold		s O PDF		~	
Select Hot Folde				~	
Select Hot Folds	_			~	
Select Hot Folds	_			~	
Select Hot Folds	Let Plot			~	

8

Select [EPS] or [PDF] and click [ID Cut].

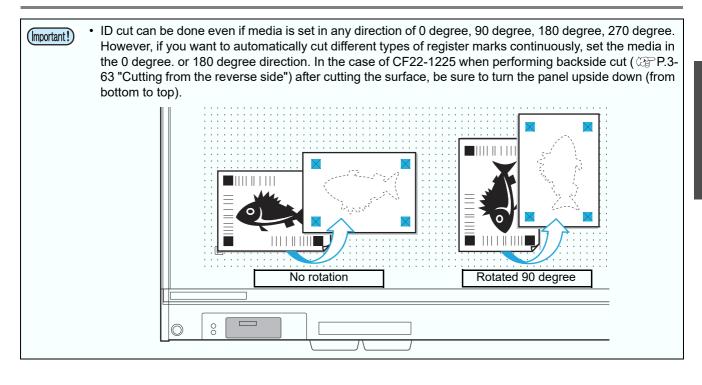
- The data is sent to the hot folder of RasterLink.
- When [EPS] is selected, the [EPS Export] screen of CorelDRAW will be displayed.Set each item and click [OK]. EPS setting varies from the CorelDRAW version used.
- When [PDF] is selected, the [PDF Settings] dialog of CorelDRAW is displayed. Click [OK] without changing the setting.

ot Condition			Plot
Plotter Condition			
Select Condition	CUT1-Panel Setup	✓ Edit	Cancel
Custom	Tool	1 ~	
	Speed	20 🗘 cm/s	Preview
	Press	100 🗘 g	Save As File
	Offset	0 🗘 mm	Save As File
Plot Condition on each	Color or Laver		ID Cut
Color Name / Layer Name	-	~	
Plot Condition Name		Edit	
ID Cut			
Select Hot Fold	ler	O PDF	
Succenterior			
		*	
tions			
Sort	Use	the Outside	
C All	L		
Each Layer			
Head Withdrawal A	fter Plot		
Set			
	art Position		
Optimize Cutting St Optimize Cutting Di			



Print output with RasterLink, and then read the register mark with plotter.

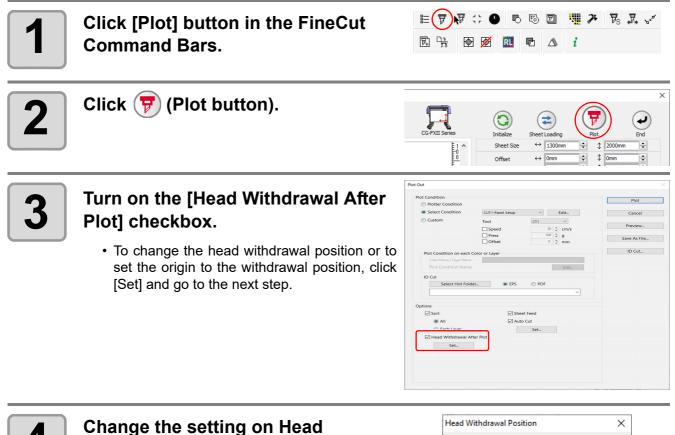
• For the detailed ID cutting procedure, please refer to the "ID Cut Guide".



Setting Head Position after Plotting

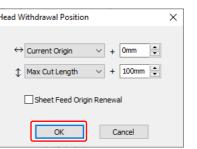
• When using "Trotec Speedy series", "Gravotech LS900" or "DCF-605PU(Digital coating machine)" this function cannot be used.

You can set the head position after plotting.



Withdrawal Position screen.

• After setting, click [OK].



Item	Description
\leftrightarrow	Set the head withdrawal position for the horizontal direction from the reference position (Select [Current Origin] or [Max Cut Width]).
\$	Set the head withdrawal position for the length direction from the reference position (Select [Current Origin] or [Max Cut Length]).
Sheet Feed Origin Renewal	Set the head withdrawal position as the origin position. (Effective only for the MGL-IIc commands on a plotter other than flatbed plotters ^{*1} .) Check this to prevent from cutting on the same position with the previous cut when plotting continuously with the same sheet.

*1. CF, CF2, DC, CF3, CFX series, CF22-1225, CFL-605RT

Δ

- In the CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, the Head Withdrawal Position is always the origin.
 - When using [No. COPIES] or [DIVISION CUT] of the plotter, uncheck the [Sheet Feed Origin Renewal].
 - If checked, [No. COPIES] or [DIVISION CUT] will not perform normally.
 - When using [X Direction Division Cut] with the CG-AR series, set the head withdrawal position in [Set...] for [X Direction Division Cut]. The value set here will not be used. ([Head Withdrawal After Plot] will be grayed out when [X Direction Division Cut] is enabled.)

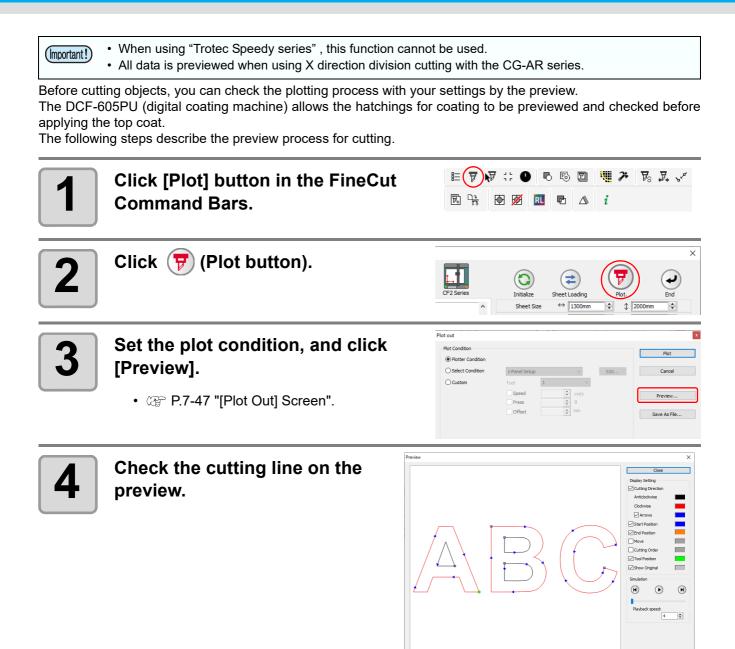


Click [Plot].

lot Out	
Plot Condition	Plot

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

Checking the Cutting Process by Preview



- To change the color of [Display Setting], click the color on the right of each setting.
- When copy or cutting with mark separation is set, the preview displays the object without copy or cutting with mark separation.

Item	Description
Cutting Direction	Shows black line for cutting in anticlockwise, and red line for cutting in clockwise.Checking [Arrows], cutting direction shows with arrows.For an open path, both directions display in black.
Start Position	Shows the starting point of cutting in blue.
End Position	Shows the ending point of cutting in orange.
Move	Shows the moving line raising the tool in yellow.
Cutting Order	Shows the numbers of cutting order.
Tool Position	Shows the tool (head) position in green. Displaying simula- tion, you can check the moving of the tool.
Show Original	Shows the CoreIDRAW object that was read by FineCut and processed on Plot screen in the state before cutting.

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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].



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

• For the CF, CF2, DC, CF3, CFX series, CFL-605RT, and CF22-1225, you can check the cut start position on the preview.

To adjust it, go to [Cut Start Position Setting] (P.6-3) or [Optimize Cutting Start Position] of Plot Out screen. (P.7-47)

You can also check the separation position of line separation on the preview.

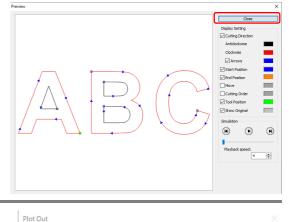
- For the CF3 (M-head) / CFX series (R10-head), you can check the following settings on the preview.
 - Cutting start position:
 - Adjust on [Cut Start Position Setting] (P.6-3), [Optimize Cutting Start Position] or [Adjust start / end] of Plot Out screen. (P.7-47)
 - Offset direction:
 - Adjust on [Options] of Plot Out screen. (2 P.7-47)
 - Position of cutting line / Cutting direction:
 - Adjust on [End Mill Diameter] of Output Condition Setup screen. (2 P.7-11, P.7-20)
- For the CFX series, you can check the following settings on the preview.
 - V Cut Path:

You can check the path specified using V-cut. The arrow indicates the cutting direction.

- Single (Left), Single (Right), Double/Triple:
- Adjustments can be made through [V Cut Type] (P.5-38) and the [Specify Cutting Direction] tool (P.6-5) on the [Output Condition Setup] screen. - Flute Direction:
- When using the function for adjusting the pressure using the cardboard flute direction (CFX series) (P.6-13), you can check the part recognized as the flute direction.

7

Check the preview again, and click [Close].





Click [Plot] to start cutting.

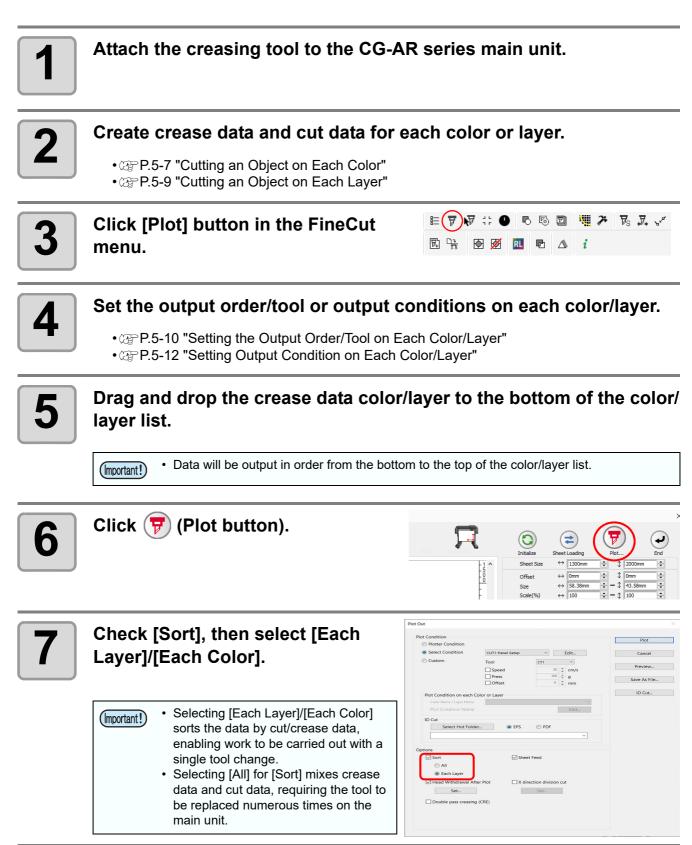
Plot Condition

5

Plot

Creasing & Cutting (CG-AR series)

This section describes how to crease and cut using the CG-AR series.





Click [Plot].

 Creasing starts.

Plot Condition	Plot

• The "Replace with CUT" message appears on the main unit display once the crease data has been output.

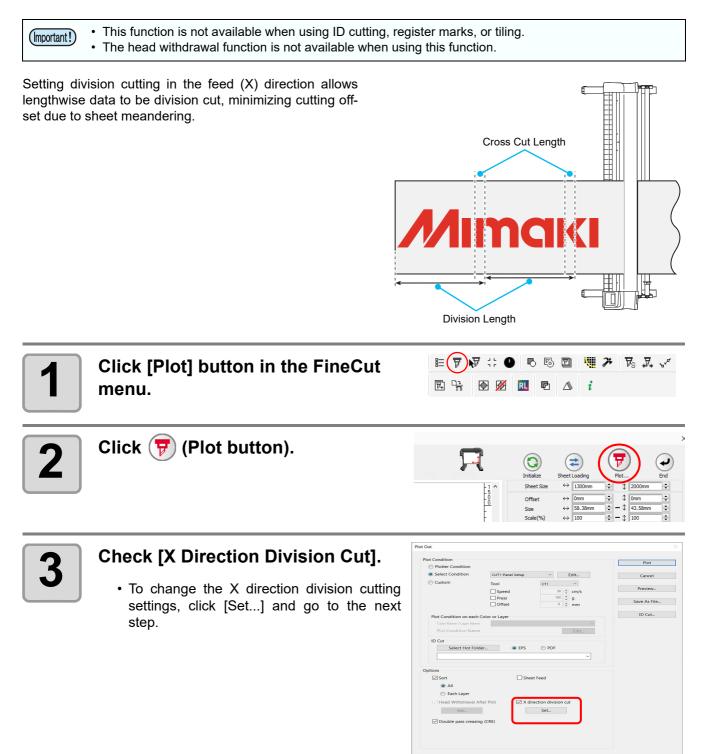


Replace the tool on the CG-AR series main unit with a cutter, then press the [REMOTE] key.

• Cutting starts.

X-Direction Division Cutting (CG-AR series)

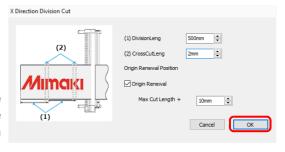
This function is available only when using the CG-AR series.





Change the settings on the [X Direction Division Cut] screen, then click [OK].

• The design will be divided as shown in the following figure and cut in sequence from the first division. The sheet will be fed for each division area.

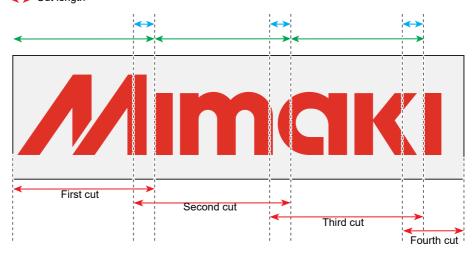


ltem	Description	Range	Default
Division Length (mm)	The division length in the X direction.	100 to 5000 (1 mm pitch)	500
Cross Cut Length (mm)	The length of the overlap cut to eliminates parts to leave.	0 to 50 (1 mm pitch)	10
Sheet Feed Origin Renewal	Checking this updates the origin after X direction division cutting is complete.	ON/OFF	ON
Position (mm)	Origin update location Must not be less than the X direction maximum cut length.	0 to 51000 (1 mm pitch)	10

Cross Cut Length

→ Division Length

🔶 Cut length





The operation will be as follows depending on the options set on the [Plot Out] screen:

When [Sort] is checked:
 Data is carted by design a

Data is sorted by design prior to division. • When [Sheet Feed] is checked:

- The first cut is made after the entire design has been fed. The sheet is not fed for each division area.
- When [Head Withdrawal After Plot] is checked: The [Head Withdrawal After Plot] option is disabled, and the head is withdrawn by the value set for [Sheet Feed Origin Renewal] on the [X Direction Division Cut] screen.

Plot Out

Plot Condition



Click [Plot].

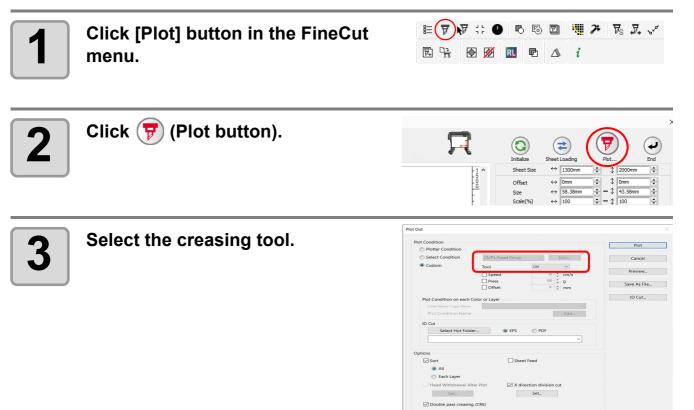
- Plotting starts.
- The plotter head moves to the specified position after plotting.

Plot

Double Pass Creasing (CG-AR series)

This function is available only when using the CG-AR series.

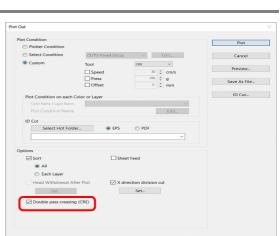
Creasing tool (CRE) data is output twice. This is used when a crease is not formed with a single output.





Check [Double Pass Creasing (CRE)].

· Creasing is performed twice for each layer (color).



- If plot conditions are set for individual layers (colors), double pass creasing is used only for data for those layers (colors) for which plot conditions using the CRE tool are selected.
- · If tools are set for individual layers (colors), double pass creasing is used only for data for those layers (colors) for which the CRE tool is selected.

Color	Layer		۲
	Layer 3	CUT2-Panel Setup	•
	Layer 2	CUT1-Panel Setup	-
	Layer1	CRE-Panel Setup	-
Color	Layer		۲
	🗖 Layer 3	CT2	•
	🗖 Layer 2	CT1	-
	Laver1	CBE	- 1

This function is only available when using the CFX Series.

The free register mark tool allows you to place any number of free register marks at any position. Placing free register marks in appropriate positions is an effective way to improve the alignment accuracy when cutting.

(Important!)	 The camera 	a option (of the CFX se	ries is required to be enabled to use free register marks.
E ₽		5 d 1	≁ 7 8 , , √*	

For information on how to create free tonboards, refer to (P.3-22 "CFX series (free register marks)" For information on how to create free tonboards, refer to (P.3-71 "CFX series (free register marks)"

Cutting Using Other Non-Mimaki Register Marks (CFX series)

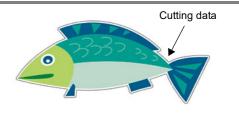
It is possible to align and cut using register marks created with non-Mimaki software printed materials with Illustrator trim marks added. Rectangles can be placed around the data for use instead of register marks.

(montant!) • The camera option must be enabled on the CFX main unit in order to use free register marks.

An example is described here in which a rectangle placed around the data is aligned as a register mark for cutting.

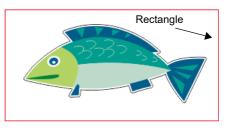


Use FineCut functions such as Frame Extraction to create cutting data around the print data.





Create a new layer, then create a rectangle surrounding the data within this layer.



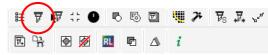


Print the print data and rectangle.



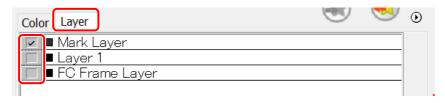


Click [Plot] button in the FineCut Command Bars.





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



(Important!)

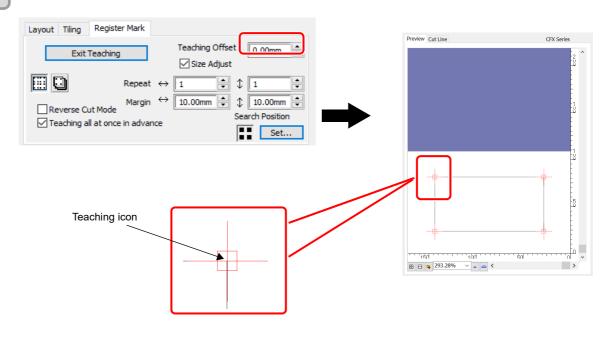
• Clicking the [Teaching] button in the next step with layers other than the layer containing the rectangle also checked may cause misalignment.



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

6	Click the [Register Mark] tab, then click [Teaching].	Layout Tiling Register Mark Detect Mark Teaching

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



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





Set the other register marks in the same way.

 For details of the setting items, refer to P.3-65

Layout Tiling Register Ma	k
Exit Teaching	Teaching Offset
Reperse Cut Mode Ma	Search Position



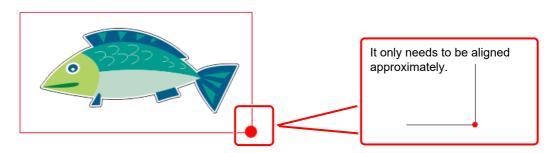
Click 🐬 (plot button).

(\bigcirc)	(7					
Initialize	Sheet Lo	ading	PI	ot		E
Sheet Size	\leftrightarrow	108.28 mm	*	\$	67.84 mm	
Offset	↔	-0 mm	*	\$	-0 mm	
Size	\leftrightarrow	108.28 mm	+	- ‡	67.84 mm	
Scale(%)	↔	100	+	- \$	100	
Сору	↔	1	*	\$	1	
Copy Margin	\leftrightarrow	10 mm	*	\$	10 mm	
Frame	↔	10 mm	*	\$	10 mm	
	↔ 1	08.28 mm		\$6	7.84 mm	

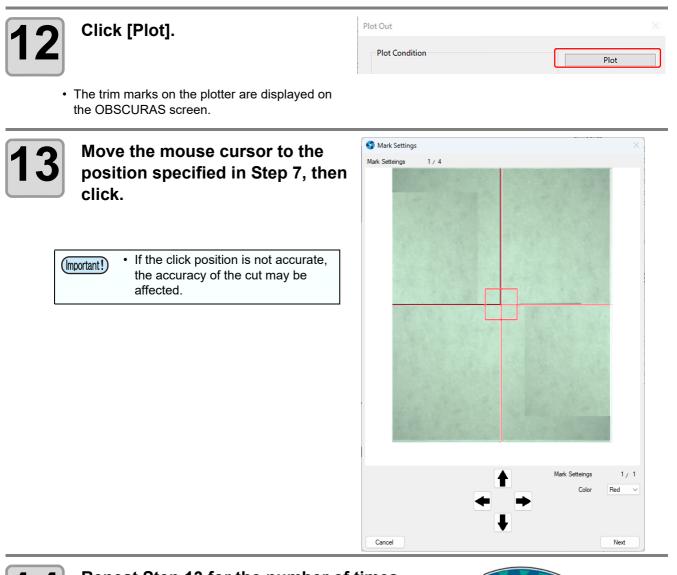
Load the work printed in Step 3 on to the CFX main unit, then select [Mark Origin Detection] on the CFX main unit panel.

•[Mark Origin Detection]

- 1. Press **ATF** on the local mode screen.
- 2. Select [Mark Origin Detection], then press the [ENTER] key.
- 3. Press **ATF** to move the light pointer to the lower right register mark.



- 4. Once the light pointer is aligned, press the [ENTER] key.
- •The [Register mark shape specification] window appears.
- 5. Select [Teaching] in $\blacktriangle \mathbf{v}$, then press the [ENTER] key.





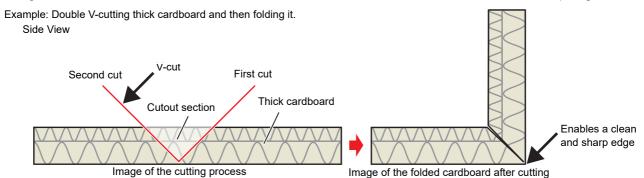
Repeat Step 13 for the number of times specified in [Repeat] in Step 9 to cut the printed positions.



5

This function is only available when using the CFX series.

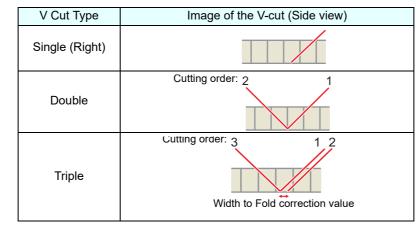
Using the V-cut tool to fold media such as thick cardboard enables corners with clean and sharp edges.



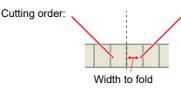
You will need to set the following conditions to perform V-cutting.

• V-cutting methods

Set the number of cuts and direction for the V-cut tool. There are three types of V-cutting methods as follows. Please select a method that is appropriate for your application.



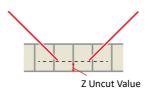
• When V Cut Width to Fold is set, it may be difficult to remove the cutout section when performing a double cut as shown below. Performing a triple cut will make it easier to remove this section.



• V Cut Z Uncut Value (mm)

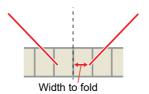
Specify the uncut amount of work as distance from the bottom of the work. Set the work to the fold part.

Set "0" for the part where the work is cut.



• V Cut Width to Fold (mm)

Specify the width of bottom surface required when V-cut and folded.



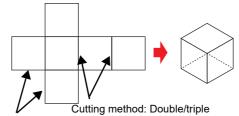
If the V Cut Width to Fold checkbox in the Output Condition Setup is unchecked, the appropriate fold width is calculated and cut based on the Z Uncut Value and the mounting angle of the V-cut tool. Fine-tuning the Z Uncut Value and the fold width changes the ease of folding and tearing. If fine tuning is required, such as for thick media, check the box and enter a value.

Tin	nes:1	1	+
Station:		B Station	~
Tool		V-Cut 45 de	g v
Work Thickness (mm)			5 🜲
Speed (cm/s)			30 🜲
Z Position (mm)	2		0 🗘
Pressure Level			100 🜲
V Cut Type		Double	~
a. V Cut Z Uncut Value (mm)			1 🌩
b. V Cut Width to Fold (mm)			1 🗘
Arc / V Cut Theta Correct			
R < 5 / V Cut			0



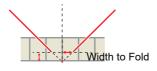
• Using the V-cut tool to create boxes with materials such as thick cardboard enables sharp edges.

In this case, the outer edge is cut out with the cut method set to single. Set the cut method to double or triple the inner part, and leave the bottom surface without cutting.



Cutting method: Single

• When setting the double or triple above, [Z Remainder] and [Width to Fold] must be set so that the extension line of blade tip and the cut line in the data are aligned. Note that if these settings are different, the box shape will become corrupted. Cut line on the data





Coincide with intersections

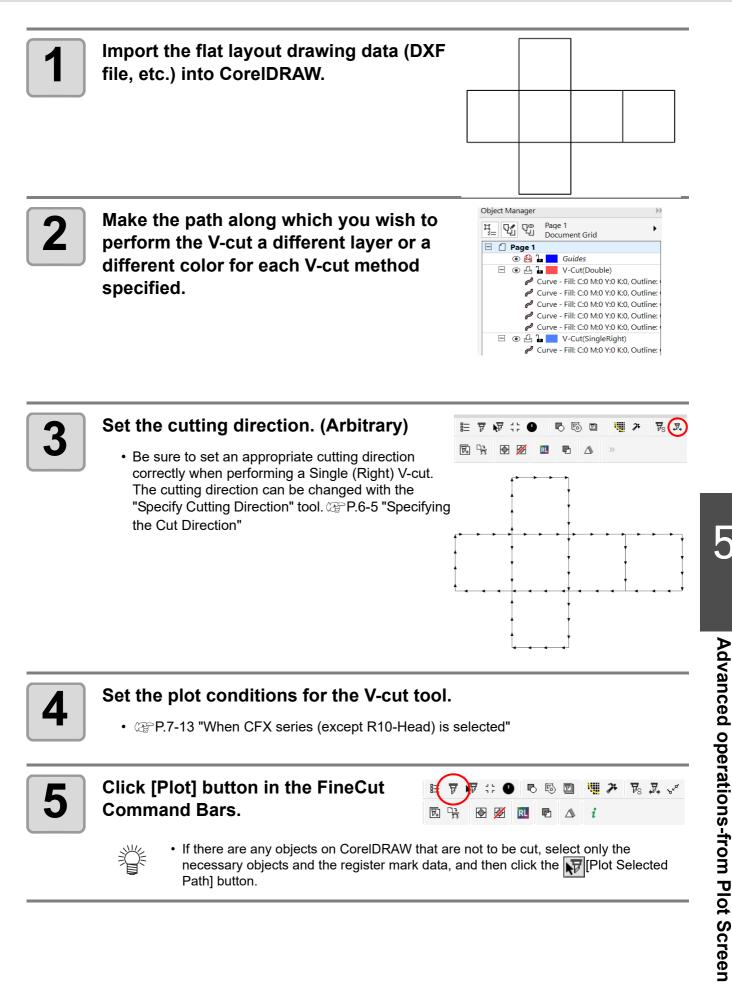
Furthermore, the settings for "Z Uncut Value" and "fold width" vary depending on the mounting angle of the V-cut tool.

[Reference] Formula for calculating the fold width value when the Z Uncut Value is used as a standard

V-cut tool angle	Width to Fold (mm)
15°	Z Uncut Value x 0.268
22.5°	Z Uncut Value x 0.414
30°	Z Uncut Value x 0.577
45°	Z Uncut Value

[Reference] Formula for calculating the Z Uncut Value when the fold width value is used as a standard

V-cut tool angle	Z Uncut Value (mm)
15°	Width to Fold / 0.268
22.5°	Width to Fold / 0.414
30°	Width to Fold / 0.577
45°	Width to Fold

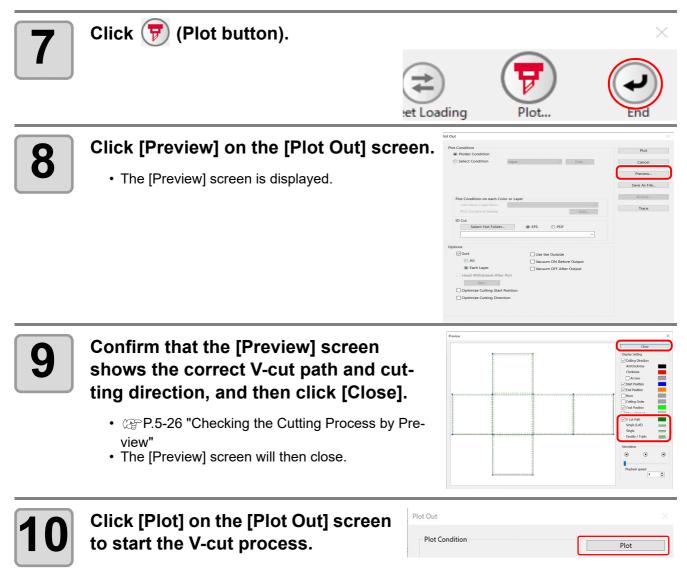


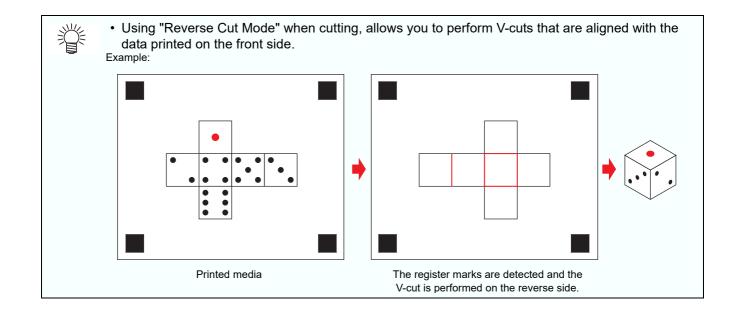


Use "Output Condition Setup" to set the conditions for the V-cut data for each color/layer.

Color	Layer			V		€
		Double)		Cut(Double)	•	
	V-Cut	Single Right)	V	Cut(Single Right)		,

• @P.5-12 "Setting Output Condition on Each Color/Layer"

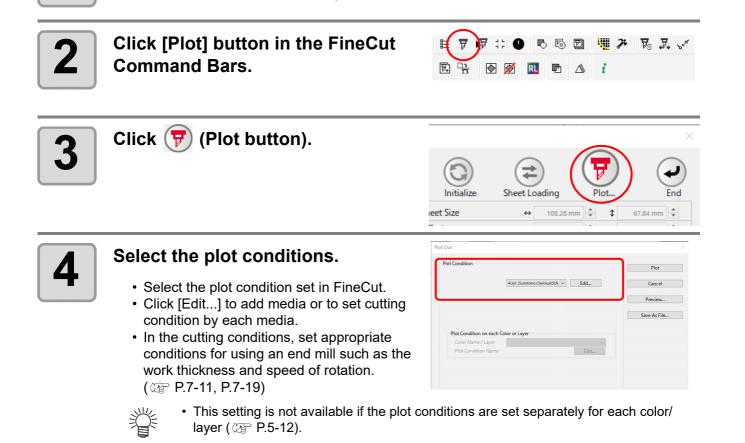




This function is available when using a milling tool with the CF3 and CFX series. If you are using the CF3 series, replace it with an M-head. If you are using the CFX series, mount the milling tool onto the D Station. For more details, refer to the Operation Manual of the main unit.

· For more details, refer to the Operation Manual of the main unit.

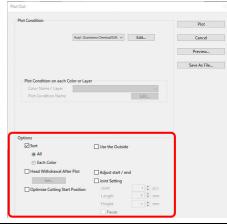
Set Z axis origin to a plotter.





Set [Options].

 In addition to the cutting condition of the previous step, set options according to the media and the object shape to cut finely.

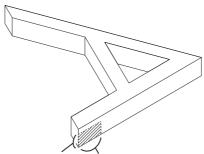


Item	Description			
(For more inform	ation regarding items other than the following, refer to 🖙 P.7-50.)			
Optimize Cutting Start Position	 Optimizes the start position of cutting to finish finely. If unchecked, cutting starts from the position that the data started to draw or the position specified by the [Specify Cutting Start Position] tool (@P.6-3). After setting, be sure to check the start position of cutting on the preview. With optimizing, the start position might be placed out of the object. If the cutting line goes over the next object, space among objects on CoreIDRAW. 			
Use the Outside	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.			
Use inside (Unchecked)				
Adjust start / end	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.			
Cut from 2 mm away from the object.				
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 precautions

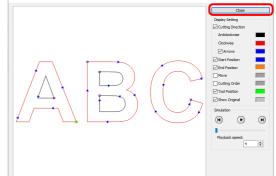
- After setting [Joint Setting], test the cutting.
- When multiple cutting and [CuttingDepth] are set on the [Output Condition Setup] screen (@ P.7-5), if the cutting depth is deeper than the [Height] setting on this screen, Joint Setting will not be available.
- If the number of cuts is set to multiple on the [Output Condition Setup] screen, the jointed part is cut the number of times according to Joint Setting.
- The height is the thickness with the top of the felt as 0.
- If the cut position is set at or below the top of the felt, the actual amount remaining after cutting is the combined thickness of the joint height and the depth of cut below the top of the felt.



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

6	Click [Preview].	Plot Condition Plot Any: (Somitomo Chemical SUA. Fedit Freview Save As File	
7	Check the cutting line. (@P.5-26)	Preview	×

• After checking, click [Close].



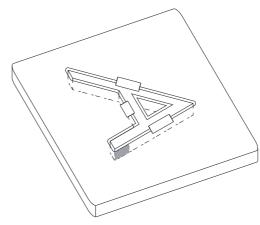
 The cutting line is offset by half of the [End Mill Diameter] that was set on the [Output Condition Setup] screen or set via [Edit...] in Step 4. Adjust the end mill diameter on the [Output Condition Setup] screen while checking the cut line on the preview.
 (@ P.7-5)

8	Click [Plot] to start cutting.	Plot Out	
		Plot Condition	Plot

掌

 When [Pause] is selected for [Joint Setting] on the [Plot Out] screen, cutting stops, and the head is withdrawn.

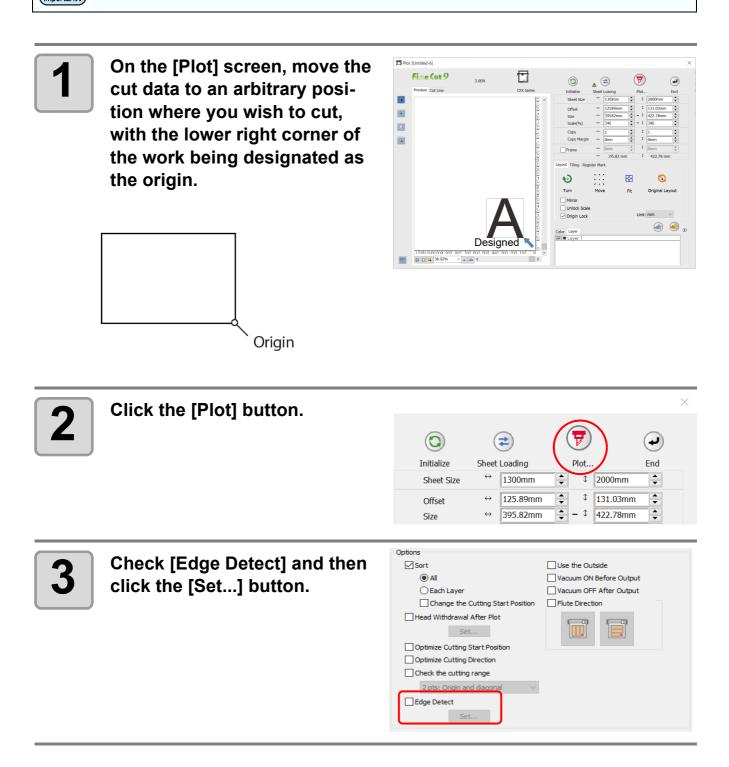
Secure the media in place with tape and press the [REMOTE] button on the plotter to cut the joints.

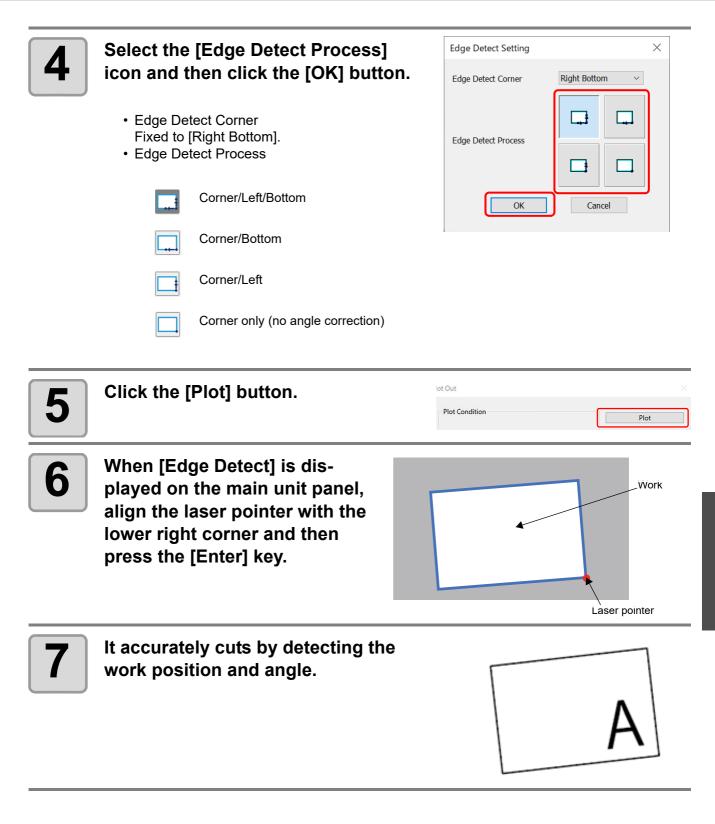


Accurate Cutting at Any Position on the Work (CFX series)

By using a camera to detect the edge of the placed work, it is possible to cut accurately at any position without having to worry about the work position or angle.

(mportant!) • The camera option of the CFX series is required to be enabled to use this function.





5

This function is available when an extension table is mounted on the CFX series.

Up to two extension tables can be mounted on the CFX.

When an extension table is mounted, the cutting area is divided into two separate areas. While cutting is being performed in one area, the other area can be used for the preparation of the next cut. This allows more efficient cutting.

* Refer to the CFX main unit Operation Manual for more information on how to switch areas during toggle cut. Separate cutting data can be transferred to each area.

The toggle state of the connected CFX is displayed as an icon on the [Plot Out] screen. This allows you to check which area to which you can transfer the data.

Plot out			x	
Plot Condition Plotter Condition			Plot	
O Select Condition	Media 1	 ✓ Edit 	. Cancel	
			Preview	
			Save As File	
Plot Condition on each Color	r or Layer			
Color Name / Layer Name		\sim	ID Cut	
Plot Condition Name		Edit	Trace	
ID Cut				
Select Hot Folder	• EPS) PDF V		Toggle state

The displayed icon may be as follows.



Data can be transferred to the front area.



Data can be transferred to the rear area.



Toggle mode has been turned off.



CFX not connected.

No icon displayed No extension table mounted.

CHAPTER 6 Advanced operations-others



This section describes other convenient usage.

Editting the Line
Setting Cutting Start Position
Specifying the Cut Direction
Registering Favorite
Generating Cutting Conditions for Clean Cutting Edges
(CFX Series (R10-head)) 6-11
Adjusting the Pressure in the Flute Direction for Card-
board (CFX Series) 6-13
Selecting the Cut Base Point Without Size Adjust
(CFX Series) 6-16

Editting the Line

The outline created by Outline Extraction ($\textcircled{\sc P.4-9}$) can be modified or changed.



Open an image created by Outline Extraction on CoreIDRAW.

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





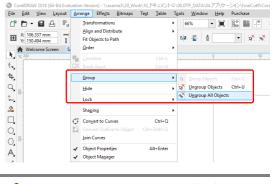
Click [ShowEditLineTool] button in the FineCut Command Bars.





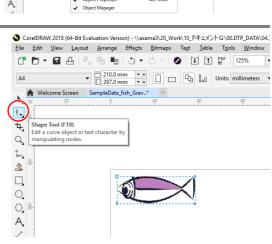
Ungroup the object.

 Click [Arrange] - [Group] - [Ungroup All Objects] or [Ungroup All].



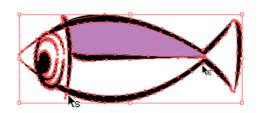


Select [Shape Tool].





Select a node or segment of the object and adjust it.





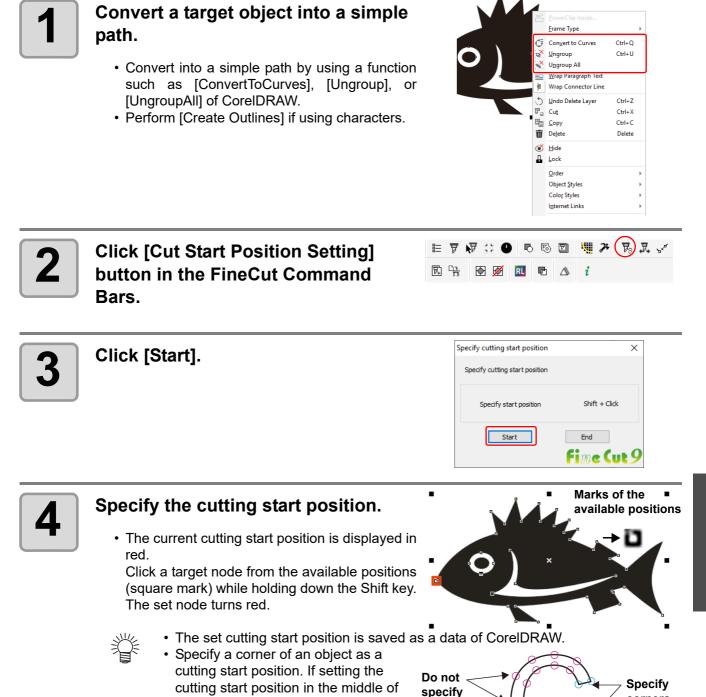
• The tools that can be edited for the selected node or segment are shown as active in the [EditLineTool] bar.

Setting Cutting Start Position

• This function is effective for cutting with the CF series (CF, DC, CF2, CF3 (excluding M-head) / CFX (excluding R10-head) series, CF22-1225) or the CFL-605RT.

The start position of cutting an object can be specified.

By specifying the start position of cutting according to the object, the object can be cut finely.



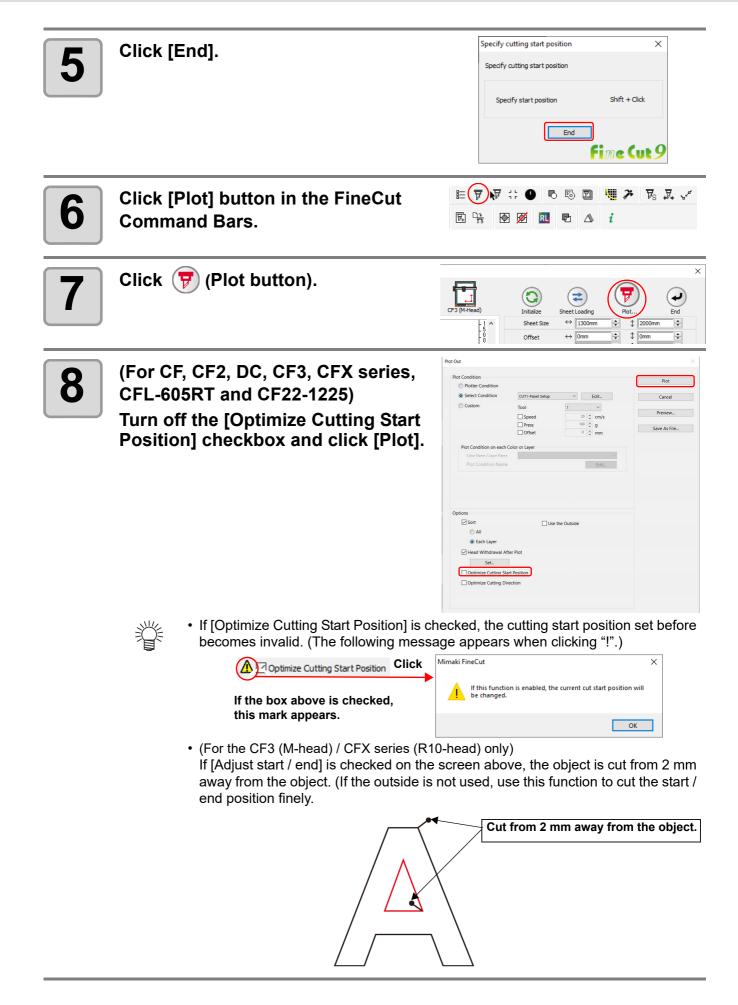
the curve, the cutting line may not be

finished well.

curves.

6

corners.



Specifying the Cut Direction

This function is effective for cutting with the CF series (CF, DC, CF2, CF3 (excluding M-head) / CFX (excluding R10-head), CF22-1225) and the CFL-605RT.

You can specify the cut direction of the object.

Specifying the optimum cut direction according to the object shape enables you to perform better quality cutting.



Convert a target object into a simple path.

- Convert into a simple path by using a function such as [ConvertToCurves], [Ungroup], or [UngroupAll] of CoreIDRAW.
- Perform [Create Outlines] if using characters.



From the Corel Draw tool palette, click the [Specify cut direction] button.





Click [Start].

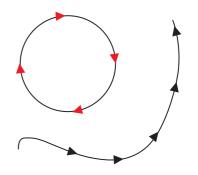
 The paths available for specifying cutting direction in Corel Draw are indicated by arrows showing the cut direction.
 Red arrow : Closed pass

Cut in clockwise direction

Black arrow : Open pass

• The displayed color is the same color as "Preview" (P.5-26). The cut direction display color also changes if you change the cut preview color.





Advanced operations - others

6

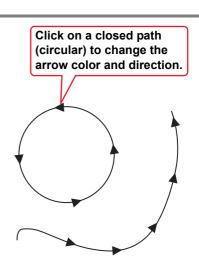


Click, while holding down the Shift key, the path of cut direction you want to change.

• The cut direction and arrow color of the clicked path change.



- The cut direction changes each time you click on the path while holding down the Shift key.
 - Cut direction is stored as Corel Draw data.
 - Save the data after specifying the cut direction so that cutting can be performed in the same direction the next time you use the saved data



5	Click [End].	Specify cut direction × Specify cut direction Specify cut direction Shift + Click End Findle Cut 9
6	Click [Plot] button in the FineCut menu.	
7	Click 큙 (Plot button).	CF2 Series CF2 Series CF2 Sheet Loading CF2 Series CF2 S
8	 Click [Plot]. Start cutting in the specified cut direction. Click the [Preview] button to display the dialog box. Check the cut direction 	Plot Out × Plot Condition Plot
	 the [Plot Out] screen to "OFF" if you wa Turning [Optimize Cutting Start Position] specified cut direction if cutting an open 	to "ON" might result in not cutting in the path shape. DN" might result in not cutting in the specified

Registering Favorite

You can register "Favorite" by setting the output conditions on the color and layer tabs displayed on the plot screen.

You can set the three output conditions indicated in the table below and you can register the following four types of favorites.

- Specify The Tool On Each Color (set by using the color tab)
- Specify The Plot Condition On Each Color (set by using the color tab)
- Specify The Tool On Each Layer (set by using the layer tab)
- Specify The Plot Condition On Each Layer (set by using the layer tab)

Output conditions that can be set:

Specify The Tool	You can specify the tool used. (Excluding the CFX series.)
Specify The Plot Condition	You can specify the set condition name by using the [Output Condition Setup] dialog box.
The Cut Order	You can specify the cut order of the color or layer displayed by the Color tab/ Layer tab.

You can register a "Favorite" with the CF series (CF, DC, CF2, CF22-1225, CF3 (excluding the M-head), CFX) and the CFL-605RT.

- Contents are overwritten if you register a "Register As Favorite" for an already registered "Color/ Layer".
- Contents set by "Favorite" are disabled if you select "PANEL" for the output conditions setting on a connected plotter.

Registering output conditions for "Favorite"

Display the color tab or layer tab, then specify the output conditions in "Color" or "Layer". The following procedures indicate how to specify the output conditions by color when the color tab is displayed.

1

Display the plot screen.



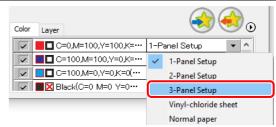
Select color-specified output conditions, then click [Specify The Plot Condition On Each Color].





Specify the output conditions.

• Cutting is performed in order from the bottom of that displayed in the color tab. Move the color name by using the mouse to change the cut order.





Click 会 (Favorite registration button).

Color	Layer).
	- C:	=0,M=100,Y=100,K=····	3-Panel Setup	•	^
	- C:	=100,M=100,Y=0,K=···	1–Panel Setup	-	
	 C	=100,M=0,Y=0,K=0(····	2–Panel Setup	•	
	📕 🗙 BI	ack(C=0 M=0 Y=0…	1–Panel Setup	•	



5 Click [OK].	Mimaki FineCut Are you sure you want to register this in your Favorite		
	OK Cancel		

Registering a tool as a "Favorite"

Display color tab or layer tab, and specify the tool for cutting in "Color" or "Layer". The following procedures indicate how to specify tools by color when the A is displayed.



Display the plot screen.



Select color-specified output conditions, then click [Specify The Tool On Each Color].





Specify the tool.

• Cutting is performed in order from the bottom of that displayed in the color tab. Move the color name by using the mouse to change the cut order.

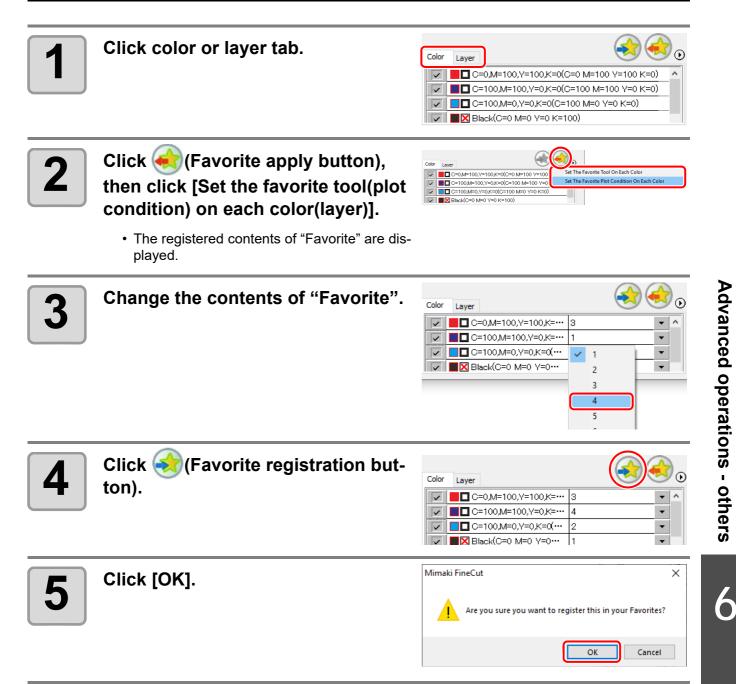
Color Layer).
C=0,M=100,Y=100,K=···	1			•	^
C=100,M=100,Y=0,K=···	~	1		•	
C=100,M=0,Y=0,K=0(…		2		•	
V Black(C=0 M=0 Y=0…		3		•	
		4			
		5			
		6			

OK

Cancel



Changing registered contents of a "Favorite"



Applying "Favorite" when cutting

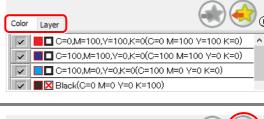
Use the [Plotter] dialog to select the registered favorite to apply.



Display the plot screen.

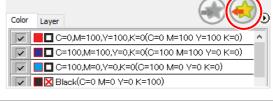


Click color or layer tab.





Click 🔶 (Favorite apply button) .





Select "Set The Favorite Tool On Each Color (Layer)" or "Set The Favorite Plot Condition On Each Color (Layer)".



• The registered favorite plot conditions are displayed.



Click [Plot] .

• Cutting starts according to the setting contents of the selected favorite.



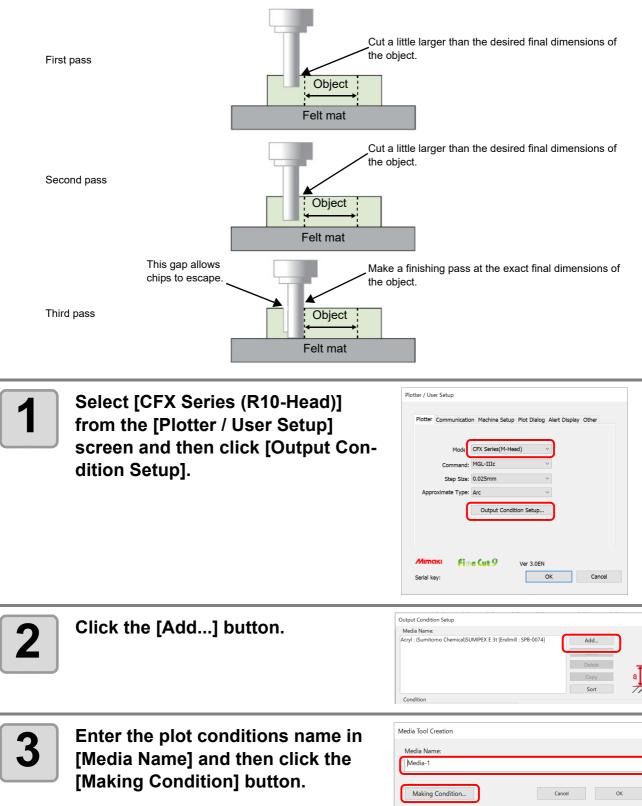
Automatically Apply Favorite

• By setting [Automatically Apply Favorite] under "Other" of the [Plotter/User Setup] dialog, cutting is performed automatically by applying the [Automatically Apply Favorite] that has previously been set automatically even if a favorite is not selected during plotting. Refer to P.7-34 for details.

This function is available when using a milling tool with the CFX series.

When milling using multiple cutting, the intermediate cuts are slightly larger than the actual product size, and there is a final finishing pass to cut to the correct size. This allows clean cutting edges around the entire object. You can easily create this cutting condition using the Making Condition function.

Example: When making three cutting passes.



4

Enter [Yes] in [Finish Cut], and then enter the amount of offset for the large cut before the finishing pass in [Finish Cut Offset]. In addition, by entering the number of passes in [Work Thickness] and [Number Of Cuts], it will automatically calculate the Z position for each pass.

aking Condition		
Station:	D Station 🗸	
Tool	Router ~	ОК
Number Of Cuts		
Finish Cut	Yes ~	Cancel
Finish Cut Offset	0.3 🜩	
a. Work Thickness (mm)	3 🜩	
Cutting Direction	Upcut Y d	↔ e
Speed (cm/s)	3 🗢	' č 🗅 b
b. Rpm (x1000 rpm)	30 🗢 🕇	
d. Z-Speed (mm/s)	✓ 10 ÷ a	
e. End Mill Diameter (mm)	3 🗘 📩	



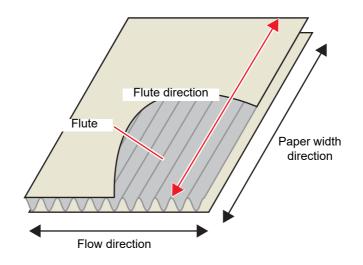
Click the [OK] button to generate the multiple cutting plot conditions.

Times	:3 1	+	2	+ -	3	+ -
Station:	D Station	~	D Station	~	D Station	~
Tool	Router	~	Router	~	Router	~
a. Work Thickness (mm)		3 🌻		3 🌲		3
Cutting Direction	Upcut	~	Upcut	~	Upcut	~
Speed (cm/s)		3 🌲		3 ≑		3
o. Rpm (x1000 rpm)		30 🗘		30 🛟		30
c. Z Position (mm)		-2 🗘		-1 🗘		0
d. Z-Speed (mm/s)		10 🜩		10 🗘		10
e. End Mill Diameter (mm)		3.6 🌻		3.6 🌲		3

The pressure of the ruling roller can be automatically adjusted according to the flute (corrugation) direction of the cardboard core.

Cardboard directions

Cardboard has two directions: the "paper width direction," which is parallel to the flute, and the "flow direction," which is perpendicular to the flute.



Foldability

When using the ruling roller to fold, it is easier to bend in the paper width direction, and more difficult to bend in the flow direction.

By changing the pressure of the ruling roller in the paper width direction and the flow direction, appropriate folds can be applied.

1	On the [Plotter / User Setup] screen, click the [Output Condition Setup]	Plotter / User Setup Plotter Communication Machine Setup Plot Dialog Alert Display Other
	button.	Model: CFX Series Command: MGL-IIIC Step Size: 0.025mm Approximate Type: Arc Output Condition Setup
		Mimciki Fire Cut 9 Ver 3.0EN Serial key: OK Cancel



Set conditions for the paper width direction on the [Output Condition Setup] screen.

Pressure Level		16	I
Flute Direction			
Z Position	mm	0	*
Pressure Level		16	-
Angle		45	

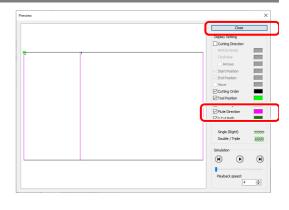
- For tool, select ruled.
- Turn on flute direction to set the cut condition in the paper width direction.
- [Angle]: Specify the angle at which the paper width setting is applied. (2) P.7-15

Click [Plot] button in the FineCut menu.	E 7 ↓ ↓ ● © © □ ₩ ≯ 7s J. √ E 1; • Ø Ø Ø . • i
4 In the Output Condition Setting by Color/Layer, set the cutting conditions of Step 2 for the color/layer to be output by the ruled roller.	Color Layer Cut Cut-Recipro1.2mm Creasing Creasing-16mm(Z)
5 Click (Plot button).	CF2 Series CFE2 S
6 Set the work on the plotter.	
Check [Flute Direction] and select the flute direction of the workpiece placed on the table.	Options Sort Sort Sort Use the Outside Vacuum ON Before Output Each Layer Change the Cutting Start Position Head Withdrawal After Plot Set
 If [Flute Direction] is off, the output condition for flute direction is not applied. [Vertical]: Select when the flutes are perpendicular to the plotter table. [Horizontal]: Select when the flutes are 	Optimize Cutting Start Position Optimize Cutting Direction Check the cutting range 2 pts: Origin and diagonal Edge Detect Set
Example: Case where the flutes are perpendicular to the plotter	r table
Flute direction	Creasing cut line in paper width direction



Confirm that the [Preview] screen shows the correct flute direction and then click [Close].

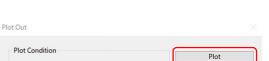
- @P.5-26 "Checking the Cutting Process by Preview"
- The [Preview] screen will then close.





Click [Plot] .

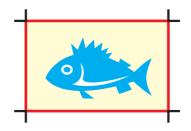
• This automatically identifies lines in the paper width direction and performs output while changing output conditions.



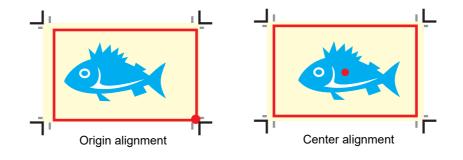
When [Size Adjust] is turned off and the original size is cut, you can select the cutting reference position in case the drawing result expands or contracts and the drawing position of the register mark and the original data do not match.

If [Size Adjust] is ON, the correction is not applied, but is made based on the origin of the resulting register mark.

When the drawing result is not expanded or contracted (the positions of the register marks and the cut data are not misaligned)

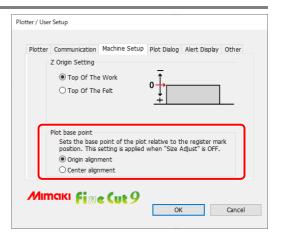


Cut position when the drawing result is expanded or contracted, misaligning the positions of the register marks and the cut data





On the [Plotter / User Setup] screen, select the [Machine Setup] tab and then select the base point under [Plot base point] and click [OK].





3	 Click the [Register Mark] tab and then click [Detect Mark] or [Teaching]. This will detect register marks. This will detect register marks. If you selected teaching, perform teaching (Step5 on P.3-73). 	Layout Tiling Register Mark Detect Mark Teaching
4	Turn off [Size Adjust].	Layout Tiling Register Mark Exit Detection Size Adjust Size Adjust 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <
5	Click 🗑 (Plot button).	CF2 Series Initialize Sheet Loading Flot End Sheet Size + 1300 mm 2000 mm 1 End Offset + 0 mm 2 0 mm 1 0 mm
6	Click [Plot] .	Plot Out

• The result is output at the set base point.

6

Plot

6-18

CHAPTER 7 Description of Functions



This section describes the functions of FineCut/Coat.

FineCut/Coat Menu	7-2
How to display FineCut/Coat menu	7-2
Menu	7-3
[Plotter / User Setup] Screen	7-4
Plotter	7-4
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Communication	7-26
Machine Setup	7-27
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Alert Display	7-31
Other	7-32

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[Plot Out] Screen	7-46
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Trace with detail setting	7-57
[Output to RasterLink] Screen	7-59
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Setting Cutting Start Position	7-63
[Online Information] Screen	7-64
Uninstallation of FineCut/Coat	7-65

FineCut/Coat Menu

How to display FineCut/Coat menu

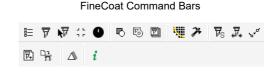
Display and select the FineCut/Coat menu from the following menus on CorelDRAW.

From [Tools]-[Customization] menu of CorelDRAW

Click [Tools]-[Customization]-[Workspace]-[Customization]-[Command Bars]-[FineCut/Coat] to display the screen below.

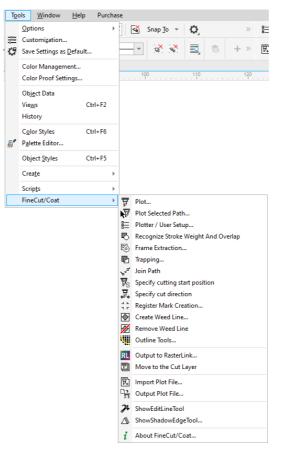
If "DCF-605PU (Digital coating machine)" is selected, [FineCoat] is displayed, and if anything else is selected, [FineCut] is displayed.





From [Tools]-[FineCut/Coat]

Click [Tools]-[FineCut/Coat] and click each menu.



Menu

Button	Menu	Description	Fine- Cut	Fine- Coat
	Plotter / User Setup	Sets the plotter used, communication condition to the plotter or others. ($\textcircled{\mbox{$\mathbb{C}$}}\mbox{$\mathbb{P}$}$ P.7-4)	~	~
দ্ব	Plot	Sets the layout or options of an object to plot. (${}_{\!\!\mathcal{CP}}$ P.7-36)	~	~
P	Plot Selected Path	Plots only the selected object. The output order is the order selected in CorelDRAW.	~	~
ן ר ר	Register Mark Creation	Creates register marks. (🕾 P.3-5)	~	~
В	Recognize Stroke Weight and Overlap	Recognizes the stroke weight and overlap of the selected object. (${}$ P.4-2)	~	~
B	Frame Extraction	Creates a frame for the selected object. (@ P.3-4)	~	~
d	Move to the Cut Layer	Moves the selected path into the newly-created cut layer. The moved data is not printed. (@ P.4-15)	~	~
	Outline Tools	Creates the outline to cut a bitmap image. (@ P.4-9)	~	~
*	ShowEditLineTool	Shows the tools to edit the outline. ((27) P.6-2)	~	~
\mathbf{B}_{S}	Cut Start Position Setting	Set the start position of cutting. (ﷺ P.6-3)	~	~
₽,	Specify cut direc- tion	Change the cutting direction. (ﷺ P.6-5)	~	~
~ ² ***	Join Path	Joins corner points of open paths (The path that the start and the end point is not connected). (\Im P.4-4)	~	~
₽.	Import Plot File	Imports a saved plot file. (ﷺ P.4-7)	~	~
	Output Plot File	Outputs a created plot file to the plotter. (🖙 P.4-7)	~	~
Ð	Create Weed Line	Creates a precut line (weed line) around the object to tear off the sticker with ease. ($$ P.4-5)	~	N/A
Ø	Remove Weed Line	Removes the created weed line.	~	N/A
RL	Output to Raster- Link	Sends the set file to RasterLink. (@ P.4-11)	~	N/A
P	Trapping	Traps the selected object. (🖙 P.4-3)	~	N/A
⚠	Show ShadowEdge Tool	Shows the tools to create a Shadow / Edge on the object. (@ P.4-6)	~	~
i	About FineCut/Coat	Displays the Operation Manual and the latest information of FineCut/Coat. (@ P.7-62)	~	~

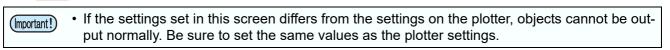
✓: AvailableN/A: Not available

[Plotter / User Setup] Screen

Set the model or communication conditions to enable communication between FineCut/Coat and the plotter.



. ([Plotter / User Setup] button) in the FineCut/Coat Command Bars.



Plotter

Set the plotter connected.

Refer to the operation manual of the plotter for details.

Communicatio	on Plot Dialog Alert Display Other
Model:	CF2 Series ~
Command:	MGL-IIc(recommended) \sim
Step Size:	0.025mm ~
Approximate Type:	Spline ~
	Output Condition Setup

Item	Description	
Model	 Select the plotter model connected. Once [Model] is selected, the default values of subsequent items are automaticall updated. 	
Command	Select the command set on the plotter.	
Step Size	Select the step size set on the plotter.	
Approximation Type	Select the approximation type when cutting bezier curves of the object.	
[Output Condition Setup]	Set media or tools. (🍲 next page)	
Setup]		

(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

a Name:				-	
el Setup el Setup			Add		OK
nel Setup			Edit		Cancel
-chloride sheet nal paper			Delete		
			Сору		Import
			Sort		
dition				1	Export
	Times : 1	1	+		Default Setup
Tool		1	· ·		Tool
Speed	cm/s	20			1
Press	9	100			Speed
Offset	mm	0.3			20 🔹 cm
Perforation Cut			hand.		Press
Arc theta correct					100 📮 g
R < 5		0	*		
5 <= R < 10		0	-		Offset
10 <= R < 20		0			0.3 • mr
20 <= R < 50		0	÷		Perf Cut Type
50 <= R < 100		0	-		dash-10-5.0
100 <= R		0	-		uash-10-5.0
ine Separation					
separation cutting direction		Ends To In	iner 🗸 🗸		Perf Setting
minimum line length	mm 🕜	30			Perf Setting
minimum line angle	0	30	*		
separation origin		From end			
separation position	mm	10			



• When CF3, CJV30, CJV300/150, CJV300 Plus, UCJV300/150, UCJV330 series or TPC is selected, [Default Setup] is not displayed.

ltem	Description	
Media Name	Displays the created media names (output condition).	
Condition	Display /change the output condition. Select media from [Media Name] to display the output condition. Displayed items vary depending on the selected model. ((CP next page)	
[Add]	Add the media name.	
[Edit]	Change the media name. Select media from [Media Name], and click [Edit].	
[Delete]	Delete the media name. Select media from [Media Name], and click [Delete].	
[Copy]	Copy the media name. Select media from [Media Name], and click [Copy].	
[Sort]	Sort the media name in ascending order.	
[Import]	Import the saved media name (output condition) files. To plot with the same condition in a different environment, click [Import] and load the saved file.	
[Export]	Save the all media names (output condition) to a file.	
Default Setup	 When output condition is set by color/layer (P.5-12), set output conditions (Tool / Speed / Press / Offset) for frame or mark that cannot be set by color/layer. This item is not displayed if the CF3, CFX, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, TPC, Trotec Speedy series, Gravotech LS series or DCF-605PU (Digital coating machine) is used. 	
Perf Cut Type	Select a registered perforation cut. Displays an illustration of the selected perforation.	
[Perf Setting]	Creates a new perforation cut. (@ next page)	

• Perf Cut Setting screen (when the line type setting is selected)

Click [Perf Setting] to display the [Perf Cut Setting] screen.

Perf Cut Setting		
Perf Cut Name		
Default_dash-10-5.0 dash-dot-10-10-5.0		Add
		Delete
Line Type	dash-dot	
	1 1	
a	х Ь	
		-
a. Line Length (mm)	10	
b. Line Length (mm)	10	
c. Spacing (mm)	5.0	
		ОК
		ÖK

Item	Description
Perf Cut Name	Displays the registered perforation cut name. The perforation cut name is automatically determined by the following rules. [Line Type]-[a. Line Length]-[b. Line Length]-[c. Line Spacing]
[Add]	Creates new perforations. Displays the [Add Perf] screen. (next page)
[Delete]	Deletes the selected perforation cut name. (Names marked with "Default" cannot be deleted.)
[Line Type]	Displays the setting values for the perforation selected in the Perf Cut Name.
a. Line Length	Displays the length to cut.
b. Line Length	Displays the length to cut. • [b. Line Length] is displayed only when the line type is dash-dot.
c. Spacing	Displays the length to leave.
[OK]	Returns to the [Output Condition Setup] screen.

Add Perf screen

Click [Add] in the [Perf Cut Setting] screen to display the [Add Perf] screen.

Perf Cut Setting	
Line Type	dash 🗸
a c	
a. Line Length (mm) b. Line Length (mm)	
c. Spacing (mm)	5.0
	OK Cancel

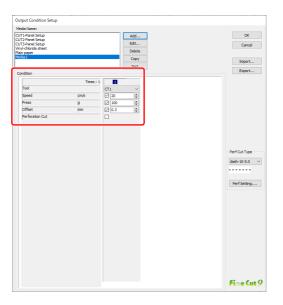
Item	Description	Default
[Line Type]	Select the type of perforation. Dash Dash-dot	Dash
a. Line Length	Displays the length to cut. Range: 5 to 150 mm	10mm
b. Line Length	Displays the length to cut. Range: 5 to 150 mm • This cannot be set if the line type is [Dash].	10mm
c. Spacing	Displays the length to leave. Range: 0.5 to 5 mm	5mm
[OK] Saves the settings and returns to the [Output Condition Setup] screen.		-

When CG, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC is selected



 When setting output condition for each color/layer, default setting (for CG series) or the plotter setting (for CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, TPC) is valid for unchecked items on the screen below.

• For more details regarding each item, refer to the Operation Manual of the main unit.

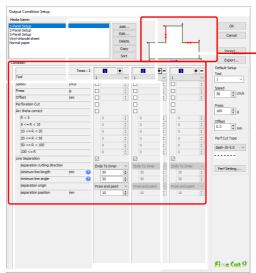


Item	Description	
Times	TimesDisplays the number of cutting. (CG, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/ 150, UCJV330 series, TPC always displays "1".)	
Tool Select the tool to be used. (CJV30 series and TPC does not have CT4 / CT5 / PIN.)		CT1
Speed	Speed Set cutting speed per second.	
Press	Press Set cutting pressure.	
Offset	OffsetSet the length from the center of the cutter holder to the blade edge. (It differs depending on the blade type set on the plotter.)	
Perforation Cut	Perforation Cut Select this checkbox if performing perforation cutting.	

When CF, CF2, DC, CF3 (except M-Head), CFL-605RT or CF22-1225 is selected



- When setting output condition for each color/layer, default setting (for CF/CF2/DC series, CFL-605RT and CF22-1225) or the plotter setting (for CF3 series (except M-Head)) is valid for unchecked items on the screen below.
- For more details regarding each item, refer to the Operation Manual of the main unit.



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

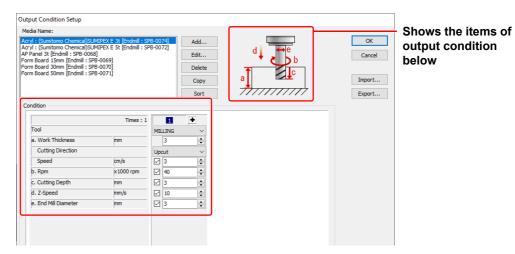
ltem	Description	Default
Times	 Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click to increase the number of cutting. Set the output condition for each cutting. Click to decrease the number of cutting. 	
ΤοοΙ	Select the tool to be used. Select the tool number or the tool name set on the plotter.	1
	 If set the tool number in the output conditions, check the settings of the tool of plotter side. When cutting the reverse side, be sure to select four-point detection. Before selecting the tool name, check the available tools in the Operation Manual of the main unit. 	
Speed	Set cutting speed per second.	30
Press	Set the pressure to cut.	100
Offset	Set the length from the center of cutter holder to the blade edge.	0.3
Perforation Cut	It Select this checkbox to perform perforation cutting. • If this checkbox is selected, the following setting is not available. • Line Separation	
Arc Theta Correct	Arc Theta CorrectAdjust the misalignment of origin /end point of the cutting arc.	

Item		Description	
Line	Line Separation	Check this when cutting with lines separated.	unchecked
SeparationSeparation(The P.4-38)Cutting DirectionCutting DirectionSelect cutting direction of the separation		Select cutting direction of the separated line.	Ends To Inner
	MinimumSet the minimum length of the line to be separated.Line LengthClick [?] to display descriptions of this item.		30
	Minimum Line Angle	Set the minimum angle of the line to be separated. Click [?] to display descriptions of this item.	30
Separation Origin		Set the origin position of the line to be separated.	From end point
	Separation PositionSpecify the separating position with the distance from [separa- tion origin].		10
		Move to previous / next page. It displays when the number of cutting is more than 4 times.	

When CF3 series (M-Head) is selected



- For unchecked items, default setting is valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.

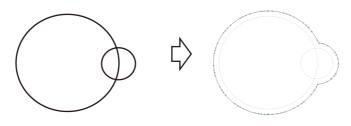


ltem		Description	Default
Times		 Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click to increase the number of cutting. Set the output condition for each cutting. Click to decrease the number of cutting. 	
	Tool	Displays [MILLING].	
а	Work Thickness	Set the thickness of work (media) (50mm maximum). You can set only on the first column of the cutting condition setting field.	3
	Cutting Direction	Select cutting direction. Changing cutting direction, the finish of the cut face may improve. Cut for test with the target media first, and check the finish.	Upcut
		 Up-Cut: Cuts the left side of the end mill direction as a work. Down-Cut: Cuts the right side of the end mill direction as a work. 	
		End mill direction	
		Up-Cut Down-Cut	
	Speed	Set the speed of the end mill to move in the direction of travel.	3
b	Rpm	Set the spin times of end mill. Set the number to time 1000rpm, the base number.	30x1000
С	Cutting Depth	Set the origin position of Z axis (Length from the surface of the work to the edge of the end mill).	
d	Z-Speed	Set the speed of the end mill to go into the work.	
e	End Mill Diameter	Set the end mill diameter. Offset value is set half of the set value on this screen. If offset is not necessary, uncheck the box of the first column of the cutting condition setting field.	
		Move to previous / next page. It displays when the number of cutting is more than 4 times.	

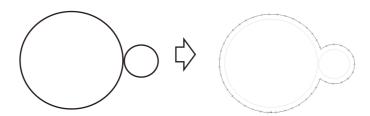
Offset

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 CoreIDRAW and the setting of FineCut.

- If paths are crossed, periphery is offset.
- The path in the crossed path is not cut.



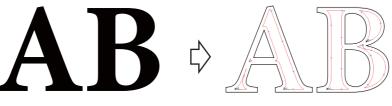
• If offset objects are touched each other, the objects are united.



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



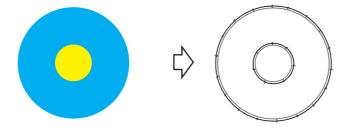
• If one part goes over the other part when offsetting inward, the part over the other part is not cut.



• An open path is not offset.

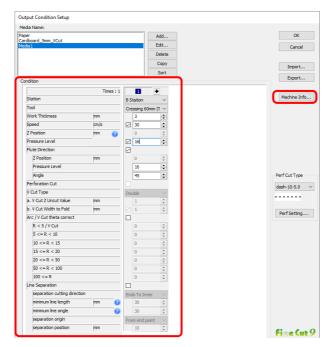


• If output condition is set on each color /layer, each color /layer is offset.



When CFX series (except R10-Head) is selected

- Ÿ
- For unchecked items, the default plotter settings are valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.



Item		Description	Range	Default
Station	Selects the station where the tool is to be mounted.	 A Station PEN Marker 	A Station B Station C Station D Station	A Station
Tool	Selects the type of tool to mount on the station.	 Swivel Cut B/C Station Flat blade Reciprocating 1.2 mm Reciprocating 3.5 mm Reciprocating 6.0 mm Creasing 16 mm (T15) Creasing 26 mm (T15) Creasing 26 mm (T30) Creasing 26 mm (T30) Creasing 26 mm (T30) Creasing 60 mm (Z Pos.) Creasing 60 mm (Z Pos.) Creasing 60 mm (Z Pos.) V-Cut 45 deg V-Cut Angle Selection D Station Flat blade Creasing 16 mm (T15) Creasing 26 mm (T15) Creasing 16 mm (T15) Creasing 16 mm (T15) Creasing 26 mm (T15) Creasing 26 mm (T30) Creasing 16 mm (T30) Creasing 16 mm (T30) Creasing 16 mm (T30) Creasing 26 mm (T30) Creasing 16 mm (Z Pos.) Creasing 26 mm (Z Pos.) Creasing 60 mm (Z Pos.) Creasing 60 mm (Z Pos.) Creasing 60 mm (Z Pos.) 	 PEN Marker Swivel Cut Flat blade Reciprocating 2 mm Reciprocating 5 mm Reciprocating 6.0 mm Creasing 16 mm (T15) Creasing 26 mm (T15) Creasing 16 mm (T30) Creasing 26 mm (T30) Creasing 26 mm (T30) Creasing 16 mm (T30) Creasing 16 mm (Z Pos.) Creasing 60 mm (Z Pos.) Creasing 60 mm (Z Pos.) V-Cut 45 deg V-Cut Angle Selection 	PEN
Work Thickness (mm)	Sets the thickness of	the work (media).	0 to 54 mm	3
Speed (cm/s)	Sets the cutting spee	d in the X/Y direction.	0.1 to 100 cm/s	30 cm/s

Item	Description	Range	Default
Z Position (mm)	Sets the tool tip Z position when the tool is lowered. This can be set when the following tools are selected: • Flat blade • Reciprocating 1.2 mm • Reciprocating 3.5 mm • Reciprocating 6.0 mm • Creasing 16 mm (Z Pos.) • Creasing 60 mm (Z Pos.) • Creasing 60 mm (Z Pos.) • On the [Machine Setup] tab in [Plotter / User Setup], the distance from the specified Z origin is set with positive values indicating the downwards direction. • If you wish to set the Z position to a point below the felt mat, adjust the Z origin using the Z origin offset setting on the main unit panel. [Side View] • When the Z origin is set to [Top Of The Felt] • When the Z origin is set to [Top Of The Work] Z origin (zero) • Positive Vork • Felt mat Click ? to display descriptions of this item.	When the Z ori- gin setting is [Top Of The Work] -2 to 55.5 mm When the Z ori- gin is set to [Top Of The Felt] -56 to 1.5 mm	When the Z origin is set to [Top Of The Work] 3 mm When the Z origin is set to [Top Of The Felt] 0 mm
Pressure (g)	Sets the tool pressure in grams. This can be set when the following tools are selected: • PEN • Marker • Swivel cut	20 to 1,000 g	30 g
Pressure Level	Sets the tool pressure level. This can be set when the following tools are selected: • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30)	When the following tools 1 to 16 • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) When the following tools 16 to 31 • Creasing 16 mm (T30) • Creasing 26 mm (T30)	16
Flute Direction	Check this to change the tool pressure level (or bottom Z position of the tool) based on the direction of the cardboard's flutes (corrugation).	-	-

Item	Description	Range	Default
Z position paper width direction (mm)	Sets the Z position of the tool tip when lowering the tool to create a crease in the cardboard's paper width direc- tion (parallel to the flutes). • Creasing 16 mm (Z Pos.) • Creasing 26 mm (Z Pos.)	When the Z ori- gin setting is [Top Of The Work] -2 to 55.5 mm When the Z ori-	When the Z origin is set to [Top Of The Work] 3 mm When the Z origin is set to
	• Creasing 60 mm (Z Pos.)	gin is set to [Top Of The Felt] -56 to 1.5 mm	[Top Of The Felt] 0 mm
Press level paper width direction	Sets the pressure level of the tool when creating a crease in the cardboard's paper width direction (parallel to the flutes). This can be set when the following tools are selected: • Creasing 16 mm (T15)	When the following tools 1 to 16 • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15)	
	 Creasing 26 mm (T15) Creasing 60 mm (T15) Creasing 16 mm (T30) Creasing 26 mm (T30) Creasing 60 mm (T30) 	When the following tools 16 to 31 • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30)	16
Angle	Sets an upper limit for the path angle to which the paper width direction setting is applied, with the flute direction used as the reference (0°). Example: Case where the flute direction is perpendicular and the angle is set to 10°. Control of the path angle to which the flute direction is perpendicular and the angle is set to 10°. Figure 100 Figure 100	1 to 45 degree	45 degree
Perforation Cut	 Select this checkbox to perform perforation cutting. If this checkbox is selected, the following setting is not available. Line Separation 	-	OFF
V Cut Type	Selects the cutting method when the V-cut cutter tool is selected. • @P.5-38 "V-cut (CFX series)"	Single (Right) Double Triple	Double
V Cut Z Uncut Value (mm)	Selects the Uncut Value in the Z direction when the V-cut cutter tool is selected. • @P.5-38 "V-cut (CFX series)"	-2 to 20 mm	1 mm

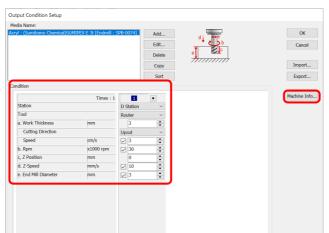
Item	Description	Range	Default
V Cut Width to Fold (mm)	-2 to 20 mm	1 mm	
Arc / V Cut Theta Correct	 Check this to perform correction using the set theta correction angle. When the V-cut cutter tool is selected, it sets the theta correction angle for the V-cut. [Top View] The tool is lowered from the left side of the cut vector. -θ V Cut Cutter +θ -θ V Cut Cutter +θ Direction of travel -θ V Cut Cutter +θ The tool is lowered from the right side of the cut vector. 	-	-
R < 5 / V Cut	Sets the theta correction angle when using a radius that is less than 5 mm. When using V-cut, it sets the theta correction value.	-20 to +20 degree	0 degree
5 <= R < 10	Sets the theta correction angle when using a radius of 5 mm or more and less than 10 mm.	-9.8 to +9.8 degree	0 degree
10 <= R < 15	Sets the theta correction angle when using a radius of 10 mm or more and less than 15 mm.	-9.8 to +9.8 degree	0 degree
15 <= R < 20 Sets the theta correction angle when using a radius of 15 mm or more and less than 20 mm.		-9.8 to +9.8 degree	0 degree
20 <= R < 50	20 <= R < 50 Sets the theta correction angle when using a radius of 20 mm or more and less than 50 mm.		0 degree
50 <= R < 100	Sets the theta correction angle when using a radius of 50 mm or more and less than 100 mm.	-9.8 to +9.8 degree	0 degree
100 <= R	Sets the theta correction angle when using a radius of 100 mm or more.	-9.8 to +9.8 degree	0 degree

	ltem	Description	Range	Default
Line Separation When this is checked, automatic separation cutting is performed according to the values set in the following items.		Checked/ Unchecked	Unchecked	
	Separation Cutting Method	Selects the cutting direction after separation.	Ends To Inner Inner To Ends	Ends To Inner
	Minimum Line Length (mm)	Separates lines that are longer than the set line length.	10 to 1,000 mm	30 mm
	Minimum Line Angle (degree)	Separates the line when it exceeds the set angle.	1 to 180 degree	30 degree
	Separation Origin	Selects the origin to separate the lines.	From Start Point From End Point	From End Point
	Separation Position (mm)	Sets the separation position. Enter the distance from the origin.	5 to 1000 mm	10 mm
Machine informa- tion		Shows information on the tool mounting status and work thickness of all connected CFX series. Machine Information Image: Contract of the station: PEN Cose Reload Station: Cost on: Cost on: Construct: Work Work Thickness (mm): 3.1mm	_	-

When CFX series (R10-Head) is selected



- For unchecked items, the default plotter settings are valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.



ltem	Description	Range	Default
Station	Selects the station where the tool is to be mounted. • This is fixed to "D Station".	D Station	D Station
ΤοοΙ	Selects the type of tool to mount on the station. • This is fixed to "Router".	Router	Router
Work Thickness (mm)	Sets the thickness of the work (media).	0 to 54 mm	3 mm
Cutting Direction	Selects the cutting direction. Changing the cutting direction may improve the finish of the cut face. Perform a test cut with the target media in advance, and then check the finishing quality of the cut. • Upcut Cuts the work on the left side of the end mill direction of travel. • Downcut Cuts the work on the right side of the end mill direction of travel.	Upcut Downcut	Upcut
Speed	UpCut DownCut Sets the cutting speed in the X/Y direction.	0.1 to	5 cm/s
(cm/s) Speed of	Set the speed of rotation of the end mill. This can be set in	100 cm/s	5 011/5
Rotation (x1,000 rpm)	multiples of the base speed of 1,000 rpm.	18 to 40 x 1,000 rpm	30 x1000 rpm

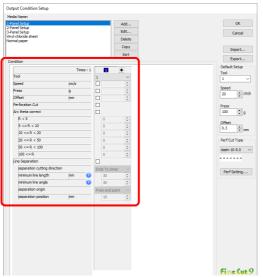
ltem	Description	Range	Default
Z Position (mm)	Sets the tool tip Z position when the tool is lowered. Click ? to display descriptions of this item.	When the Z origin setting is [Top Of The Work] -2 to 55.5 mm When the Z origin is set to [Top Of The Felt] -56 to 1.5 mm	When the Z origin is set to [Top Of The Work] 3 mm When the Z origin is set to [Top Of The Felt] 0 mm
Z Speed (mm/s)	Sets the tool lowering speed in the Z direction.	1 to 300 mm/s	10 mm/s
End Mill Diameter (mm)	Sets the end mill diameter. The offset value is set to half the value on this screen.	0 to 10 mm	3 mm
Machine information	Shows information on the tool mounting status and work thickness of all connected CFX series. Machine Information Image: Tool a Station: PEN Station: PEN Station: PEN Station: PEN Station: PEN Station: PEN Station: Reload Station: Camera Station: Camera Station: Camera Station: Camera Station: Camera Station: Camera Work Work Thickness (mm): 3.1mm • Work thickness information cannot be obtained when using a serial connection.	_	-

Offset

Refer to P.7-12 "Offset".

When CFL-605RT is selected

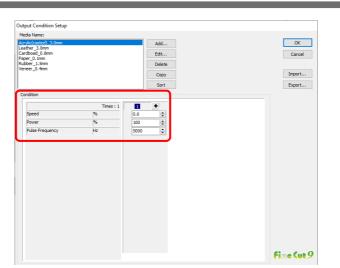
- ÿ
- For unchecked items, the default plotter settings are valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.



Item	Description	Default
Times	 Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click to increase the number of cutting. Set the output condition for each cutting. Click to decrease the number of cutting. Select the tool number or name of the tool to be use. 	
	 If set the tool number in the output conditions, check the settings of the tool of plotter side. Check the pen number allocation of plotter side, and set of FineCut. When cutting the reverse side, be sure to select fourpoint detection. Before selecting the tool name, check the available tools in the Operation Manual of the main unit. If use the tool of B unit in the CFL-605RT, ruling roller, reciprocating cutter, tangential cutter can not be used at the same time. In the case of "cut with reciprocating cutter after ruling" or so, output the cut data for each tool. 	
Speed	Set cutting speed per second.	20
Press	Set the pressure to cut.	
Offset	Set the length from the center of cutter holder to the blade edge.	
Perforation Cut	Select this checkbox to perform perforation cutting. If this checkbox is selected, the following setting is not available. Line Separation 	OFF
Arc Theta Correct	Adjust the misalignment of origin /end point of the cutting arc.	unchecked

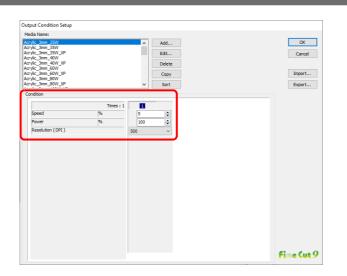
	ltem	Description	Default
Line	Line Separation	Check this when cutting with lines separated.	unchecked
Separation ((Car P.4-38)	Separation Cut- ting Direction	Select cutting direction of the separated line.	Ends To Inner
Minimum Line LengthSet the minimum length of the line to b Click ? to display descriptions of this		Set the minimum length of the line to be separated. Click ? to display descriptions of this item.	30
		Set the minimum angle of the line to be separated. Click ? to display descriptions of this item.	30
	Separation Origin	Set the origin position of the line to be separated.	From End Point
Separation Posi- tionSpecify the separating position with the distance from [Separation Origin].		10	
		Move to previous / next page. It displays when the number of cutting is more than 4 times.	

When Trotec Speedy series is selected



Item	Description	Default
Times	Display or set the number of cutting.	1
Speed (%)	Set the speed of laser head movement. Faster speeds result in shorter exposure, and slower speeds result in longer exposure. The higher the value, the faster the speed.	5
Power (%)	Set the intensity of laser output. The higher the value, the higher the intensity of laser output.	50
Pulse Frequency (Hz)	Set the pulse frequency. Example: High temperatures are required for a smooth cut surface in acrylic cutting, so set in the range of 5000–10000 Hz.	5000

When Gravotech LS series is selected

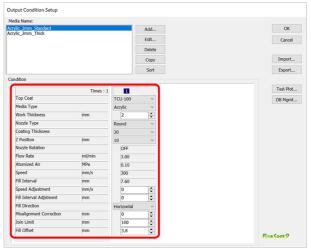


Item	Description	Default
Speed	Display the number of cutting.	1
Speed (%)	Set the speed of laser head movement. Faster speeds result in shorter exposure, and slower speeds result in longer exposure. The higher the value, the faster the speed	5
Power (%)	Set the intensity of laser output. The higher the value, the higher the intensity of laser output.	50
Resolution(DPI)	Specify the resolution to cut. The resolution changes the pulse frequency. Select [Unspecified] if you want to make the cut surface smooth with acrylic cut.	500

When DCF-605PU (digital coating machine) is selected



- The digital coating machine settings apply for those items that are not checked.
- For the details of each item, refer to the digital coating machine operation manual.



ltem	Description	Range	Default
Top Coat	Selects the top coat to be applied. • Select from the [Top Coat] list registered in the database.	Database registration Top Coat	-
Media Type	Selects the media to be coated.Select from the [Media Type] list registered in the database.Only those media compatible with the selected [Top Coat] are displayed.	Database registration Media Type	-
Work Thick- ness (mm)	Specifies the thickness of the work to be coated.A warning is displayed if the sum of the work thickness and Z position exceeds 50 mm.	0 to 50	2
Nozzle Type	 Selects the type of nozzle for output. Select from the [Nozzle Type] list registered in the database. Only those nozzles compatible with the specified [Top Coat] and [Media Type] are displayed. 	Database registration Nozzle	-
Coating Thickness (µm)	 Selects the thickness of the top coat to be applied. Select from the [Coating Thickness] list registered in the database. Only those coating thicknesses compatible with the specified [Top Coat], [Media Type], and [Nozzle Type] are displayed. The actual coating thickness may vary within a range of ±20 %. 	Database registration Coating Thickness	-
Z Position (mm)	 Selects the height from the surface of the work to the nozzle tip. Select from the [Z Position] list registered in the database. Only those Z positions compatible with the specified [Top Coat], [Media Type], [Nozzle Type], and [Coating Thickness] are displayed. 	Database registration Z Position	-
Nozzle Rotation	 Displays whether or not the nozzle is rotated in the direction of travel. DThe [Nozzle Rotation] information registered in the database is displayed. This is determined by the specified [Nozzle Type]. 	-	-
Flow Rate (ml / min)	 Displays the flow rate when adjusting using the flow rate meter. The flow rates compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. 	-	-
Atomized Air (MPa)	 Displays the atomized air adjustment value. The atomized air compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. 	-	-
Speed (mm/s)	 Displays the head movement speed during coating. The coating speeds compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. 	-	-

ltem	Description	Range	Default
Fill Interval (mm)	 Displays the fill interval. The fill intervals compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. 	-	-
Speed Adjustment (mm/s)	Enter the value for adjusting the coating speed.A warning is displayed if the value after adjustment exceeds the permitted range for the machine.	-300 to +300	0
Fill Interval Adjustment (mm)	Enter the value for adjusting the fill interval. • A warning is displayed if the value after adjustment is less than 1 mm.	-50 to +50	0
Fill Direction	Selects the fill direction.	Horizontal / Vertical	Horizontal
Misalign- ment Cor- rection (mm)	Enter the coating misalignment adjustment value. • Moves the coating start and end positions to adjust any coating misalignment (see diagram below). Nozzle Coating start position Coating start position Coating end position Coating end position Coating end position Coating end position Coating misalignment adjustment value by checking the coating results using the [Test Plot] function. • Coating misalignment adjustment procedure (1) Enter "0" for [Misalignment Correction], then click the [Test Plot] button. (2) On the [Test Plot] screen, select [Line], then click the [OK] button. (3) Measure the extent of misalignment of the coated line. (4) Enter the value corresponding to half of the misalignment with a negative sign in [Length of Correction].	-30 to 0	-10
Join Limit (mm)	Coats by joining fill lines if a gap on the same fill line is within the specified size. • Example: Join limit = 20 mm • Example: Join limit = 20 mm • Coating quality is improved, due to the reduction in start/end points. • Coating quality is improved, due to the reduction in start/end points. • Top coat consumption is increased.	0 to 520	100

ltem			Description	Range	Default
Fill Offset (mm)	 A value corresp 	onding to 1/2	ginal data when a fill line was created. of the fill interval is recommended. ed if unfilled areas remain.	-50 to 50	1.5
		ted output on the ted output to be	utton displays the [Test plot] screen.Fill c condition settings.This function allows the checked.		
			(2) (1) (1) (2) (3) Pitch 30mm © Cancel OK		
	lt	em	Description		
[Test Plot]	Coating	Line	Two lines are coated at the specified pitch. • Select this to check the coating width and misal	ignment.	
	Operation	Fill	An area of the specified size is coated. • Select this to check the coating quality.		
	Oi	rigin	 Specifies the coating origin position. 		
	s	ize	 With [Line] selected in [Coating Operation]: Specifies the length of the lines to be coated With [Fill] selected in [Coating Operation]: Specifies the size of the rectangle to be filled 		
	P	itch	 With [Line] selected in [Coating Operation], spe separation between the two lines. 		
	[Ca	incel]	Closes the screen without performing a test plot	ŀ	
		DK]	 Performs coating using the selected output con- 		
	Clicking the [DE ing and deleting		ent] button displays the [DB Management tems.] screen for	register-
		DB Ma	nagement		
			les MISEAL U401K_Acrylic_1.0.json OK Add		
			Delete		
		DB	Information		
[DB Man- agement]		Di Di In	B Format Ver.: 1.0 B File Ver.: 1.0 ate of Creation: 2021/3/1 k Name: CHEMISEAL U-401K edia Type: Acrylic		
	Item	1	Description		_
	Item	Displays a l	ist of the database files currently registered.		
	DB Files	The heat	der information for the database file selected is dis of the screen.	splayed at the	
	[OK]		[DB Management] screen.		
	[Add]	Adds a data	base file.		
	[Delete]	Deletes A deletic	atabase file. the selected database file from the database folde on confirmation message will be displayed if the da s currently being used as the output conditions.		be
	L]

Communication

Set communication conditions for the plotter connected.

Р	lotter communicat		Alert Display Other	
 Serial 		COM1	\sim	
	OUSB		Not found	\sim
			Not found	
	IP Addre	ess:	10.10.100.100	
		Baud Rate:	9600bps	\sim
	1	Data Length:	8bits	\sim
		Parity:	None	\sim
		Handshake:	Hardwire	\sim
[Connection test			
	Connection test			

Item	Description		
Plotter communica- tion port	 Select a port connected to the plotter. Models that can be connected via Seirial: CG-EX, CG-FX, CG-FXII, CG-FXII Plus, CG-SRII, CG-SRII, CG-SRII, CG-AR, Other CG series, CF22-1225, CFL-605RT, CF, CF2, CF3, CFX, DC, TrotecSpeedy series Connect the computer to the plotter and turn the power ON. Then select [Serial] on this screen, and set the [Baud Rate] and [Data Length], [Parity], [Handwire]. Models that can be connected via USB: CG-FX, CG-FXII, CG-FXII Plus, CG-75ML, CG-60SR, CG-SRII, CG-SRIII, CG-AR, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, CFL-605RT, CF3 series Connect the computer to the plotter and turn the power ON. Then select [USB] on this screen, and select the name of connected device. Models that can be connected via LAN: CG-SRIII, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CF22-1225, CFL-605RT, CFX series, DCF-605PU (digital coating machine) Connect the PC and the plotter with the network via LAN cable. Turn ON the power supply of the plotter. If you cannot find the machine you want to connect in the list, turn the "IP address" check box on, and enter the machine's IP address. The connected machine is displayed in the [Machine name/ serial No.] format. If multiple machines are connected, you can identify them by the serial No. You can check the serial No. in [INFORMATION] of the plotter. 		
Baud Rate	Select the transfer rate. (When [Serial] is selected on [Port])		
Data Length	Select the number of data bits. (When [Serial] is selected on [Port])		
Parity	Select the parity check method. (When [Serial] is selected on [Port])		
Handshake	Select the handshake method. (When [Serial] is selected on [Port])		
[Connection test]	Test the connection to the plotter.		
(1) Set [Hand supported (2) When cor If commu • Note on L (1) If the network cation car (2) Even if you	Serial connection dshake] to [Xon/Xoff] when using a serial connection to the CFX series. [Hardwire] is not d. necting serially with CG-SR III, CG-AR series, set [Baud Rate] at [38400bps]. nicating by using speed other than [38400bps], cutting quality may be decreased. AN connection work address set in the machine differs from the IP address assigned to the PC, communi- nuot be performed. bu select LAN in the plotter communication port, if the connected machine is not displayed, the firewall setting such as the router on the network and the security software of the PC.		

Machine Setup

This is displayed when the CFX series, Trotec Speedy series, Gravotech LS series, or the DCF-605PU (digital coating machine) is selected.

When the CFX series or CFX (R10-head) series is selected

Plotter	Communication Machine Setup Plot Dialog Alert Display Other
	Top Of The Work O
	○ Top Of The Felt
	Plot base point
	Sets the base point of the plot relative to the register mark
	position. This setting is applied when "Size Adjust" is OFF.
	Origin alignment
	🔿 Center alignment

Item	Description	Default	
Top Of The Work	Sets the top of the work as the Z origin. The [Z Position] of the plot con- ditions is shown as positive.	Top Of	
Top Of The Felt	Sets the top of the felt as the Z origin. The [Z position] of the plot condi- tions is shown as negative.	The Felt	
Plot base point	When the drawing result expands or contracts, causing the positions of the register marks and the cut data to become misaligned, you can select the cut base point. (@ P.6-16) Applies when [Size Adjust] is off (@ P.7-46).	Origin	
Origin alignment	Aligns the drawing with the origin of the register marks (lower right) as the base point.	alignm ent	
Center alignment	Aligns the drawing with the center of the area surrounded by register marks as the base point.		

Trotec Speedy series is selected

Plotter	Communication	Machine Setup	Plot Dialog	Alert Display	Other
	Origin Adjustmen Origin) mm (0.00 mm	
Mur	ומאו רייש	. (

Item	Description	Default
[Origin]	Load and display the current origin from laser engraving machines in the Tro- tec Speedy series.	0, 0

When Gravotech LS series is selected

lotter	Machine Setup Plot Dial	log /	Alert Display Other
	Printer:	L-So	olution ~
	Origin Adjustment		
	Origin	\leftrightarrow	0.00 mm
	Mark Search Mode	r	
	_	r	Calibration Camera
	Positioning Pointer		Calibration Camera Omm 🗘 🛊 Omm 🌩

Item	Description	Default
Printer	Select the printer driver (L-Solution) for the laser engraving machines in the Gravotech LS series.	-
[Origin]	Load and display the current origin from laser engraving machines in the Gravotech LS series.	0, 0
Positioning Pointer	Use the RED pointer to detect register marks manually.	-
Camera	The register marks are detected automatically using the camera.	-
[Calibration Camera]	The calibration grid printed by the laser is read and the camera and laser positions are automatically adjusted.	-
Offset	This is valid when the register mark detection mode is [Camera]. Enter the adjustment value when the laser cutting position is mis- aligned.	0.0

When DCF-605PU (Digital coating machine) is selected

Plot	ter / User Setup	
	Plotter Communication Machine Setup Plot Dialog Alert Display Other	
	Origin Adjustment ↔ 0mm 🔹 ‡ 0mm 🔹	
	Mimciki fime Coat 9 Serial key: OK Cancel	

ltem	Description	Range	Default
Origin Adjustment	Adjust by entering an offset value if the origin point for the coat- ing is offset from the printing position. • If using a square jig, enter 10 mm × 10 mm.	-20.0mm to +20.0mm	0, 0

Plot Dialog

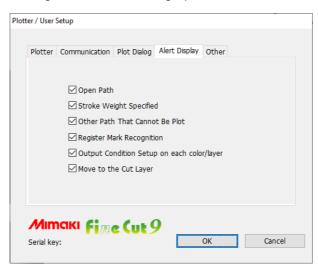
Set the display of Plot screen and Output to RasterLink screen.

Communication Plot Dialog Alert Display Other Default Sheet Size: ↔ 1300mm ‡ 2000mm ‡
Display Type
○ Fit In Sheet Size
● Fit In Sheet Width
○ Fit In Objects Size

Item	Description	Default
Default Sheet Size	When the sheet is not loaded properly, or [Loading Sheet When Dialog Displays] is unchecked, the preview screen is displayed with the size set here.	1300mm x 2000mm
Display Type	Select the display type of Plot screen or [Output to RasterLink] screen.	Fit In Sheet Width

Alert Display

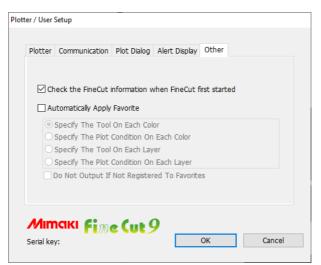
Select the state to display warnings from the following options.



Item	Description	Default
Open Path	The path is not closed. (The start and the end points are not set to the same point.)	checked
Stroke Weight Specified	There is a path that the stroke weight is specified.	checked
Other Path That Cannot Be Plot	The object may be drawn with the Mesh Fill tool of CorelDRAW. The object is a raster image.	checked
Register Mark Recognition	Two-points are corrected at the time of register mark recognition. (CG-EX only)	checked
Output Condition Setup on each color/layer	The output conditions are set on each color or layer.	checked
Move to the Cut Layer	When executing [Move to the Cut Layer], the confirmation screen is displayed. (@ P.4-14)	checked

Other

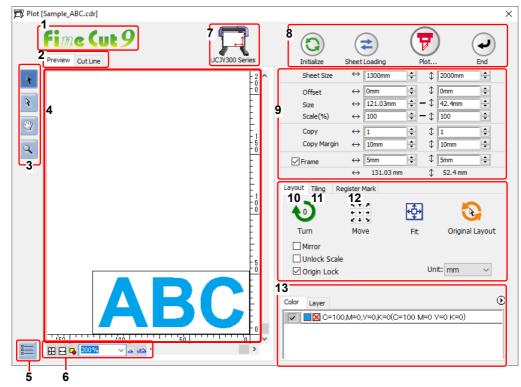
Select whether or not to display "Online information" when CorelDRAW is started.



ltem	Description	Default
Check the FineCut/ Coat information when FineCut/Coat first started	FineCut/Coat information is obtained when using FineCut/Coat first on CoreIDRAW, and if there is a new / unchecked information, the online information is displayed.	checked
Automatically Apply Favorite	You can automatically apply a "Favorite" registered by color or layer when cutting. For automatic application, set [Automatically Apply Favorite] to "ON" and select the favorite to apply.	unchecked
	 Contents selected by favorite are disabled if you select "PANEL" for the output conditions setting on a connected plotter. Perform the following to cut if there is a color or layer in the cut data that has not been registered in as a favorite. Tool used : No. 1 is used. Output conditions setting : The condition at the top of the list of the [Media Name:] field of the output conditions set- tings dialog box (P.7-5) is applied. 	
Do Not Output If Not Registered To Favor- ites		unchecked

[Plot] Screen

Set for plotting. To display this screen, click ([Plot] button) in the FineCut/Coat Command Bars.



1 FineCut/Coat

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

2 Screen Display Mode

Click the tab to switch the display mode.

Item Description	
Preview	Displays an object with colors.
Cut Line	Displays an object with paths (outline). It is effective to confirm a white object or a cutting-line.

3 Tool Box

Move or enlarge/reduce the object.

Button	ltem	Description		
Select Tool		Move a whole object displayed. Or move the division line of tiling.		
4	Direct Select Tool	elect and move the part of an object. bying the object to a blank position of the sheet, you can use the eet without waste. (@ P.5-14)		
2	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.		

4 Layout Area

The white area is the effective cutting area loaded from the sheet.

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

5 Communication setting

Displays the communication setting. (2 P.7-28)

6 Zoom Size

Change the zoom size displayed on the layout area.

Button	ltem	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.
100.00% 💌	%	Change the display size by selecting or entering number. (0.2 to 6400 %)
<u> </u>	zoom out / zoom in	Zooms in and out the preview.

7 Plotter Name

Displays the plotter name being selected and its cutting direction.

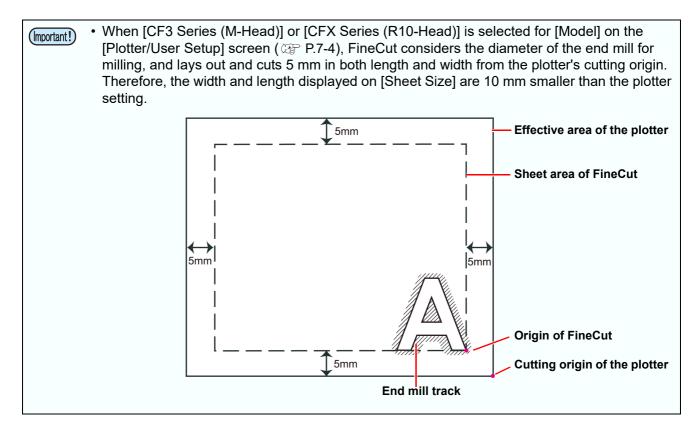
8 Execution Button

Button	Item	Description			
0	Initialize	Initializes the layout of the changed object.			
Sheet Loading (except Trotec Speedy series, Gravotech LS series)		 Loads the sheet size set on the plotter. When A mark appears on the left of this button, the sheet size of the plotter cannot be loaded. Set the plotter to the REMOTE mode and click this button. When using the base sheet table and cutting base sheet with the CG-AR series, [Sheet Loading] reads in the cutting base sheet size. Be sure to set the origin for the sheet on the CG-AR series before using [Sheet Loading]. Check to confirm that the cut data fits within the sheet size before starting plotting. 			
7	Plot	Displays Plot Out screen. (P.7-47) When Amark 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.			
F	End	Closes the Plot screen.			

9 Size input area

Sheet Size	↔ 1300mm 🗘 12000mm 🗘	
Offset	↔ 0mm ÷ ¢ 0mm ÷	
Size	↔ 121.03mm ÷ - ↓ 42.4mm ÷	
Scale(%)	$\leftrightarrow 100 \textcircled{-} \textcircled{100} \textcircled{-} \textcircled{100} \textcircled{-} \textcircled{-} \textcircled{100} \textcircled{-} @{-} $	
Copy Copy Margin	$\begin{array}{c c} \leftrightarrow & 1 & \bullet \\ \hline 1 & \bullet \\ \hline 10 \text{mm} & \bullet \\ \hline \end{array} \begin{array}{c} \uparrow & 1 & \bullet \\ \hline 10 \text{mm} & \bullet \\ \hline \end{array} \begin{array}{c} \uparrow & 1 & \bullet \\ \hline 10 \text{mm} & \bullet \\ \hline \end{array}$	
Frame	↔ 5mm ≑ \$ 5mm ÷	
	↔ 131.03 mm	— Total Le

ltem	Description			
Sheet Size	Click (Sheet Loading button) to display the loaded sheet size (width and length). Alternatively, enter the sheet size (width and length of the cutting area).			



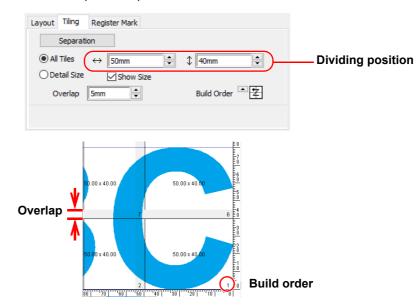
ltem	Description	Default	
Offset	 Sets the origin position. The origin reference position varies by model. Bottom right: CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, CF3, CFX series Bottom left: CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digita coating machine) Top left: Trotec Speedy series, Gravotech LS series The default origin is at 0 mm (both vertically and horizontally) of the layout area. CG, CJV30, TPC, CJV300/150, CF, CF2, DC series, 		
	CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, CF3, CFX series CFX series Trotec Speedy series, Gravotech LS series		
Size	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.		
Scale (🖓 P.5-2)	Sets the magnification of the vertical and horizontal lengths. When the " - " mark is shown between [vertical] and [horizontal] col- umn, the aspect ratio is retained after changing either value. To change the vertical and horizontal magnification separately, check the [Unlock Scale].		
Copy (@ P.5-4)	Enter the number of copies along the vertical and horizontal direc- tions.		
Copy Margin (ﷺ P.5-4)	Set the margin between objects along the vertical and horizontal directions.		
Frame (except Trotec Speedy series, DCF-605PU (Digi- tal coating machine))	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.		
Total Length	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.		



Button	ltem	Description	Default		
N	TurnRotates the object clockwise in unit of 90 degrees.Degrees (0, 90, 180, 270) are displayed in the arrow mark.				
K + 7 + • + K + 1	Move	Click the desired direction of arrow to move the object.			
	Fit	Fits the object to the sheet size.			
3	Original Layout	hal Layout Resets to the original layout that is changed by (Direct Select Tool).			
	Mirror	Reverses the right and left of the object image and cuts it.	unchecked		
Unlock Scale (@ P.5-2)		Changes the aspect ratio of the object when changing the size.	unchecked		
Origin Lock (🖙 P.5-7)		 Fixes the object position on the object created place. If unlocked, the object is cut on the bottom right or the bottom left of the sheet. When cutting specified color or layer only, you can use sheet without waste. The origin reference position varies by model. Bottom right: CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV200, UCJV300/150, CF3, CFX series Bottom left: CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digital coating machine) Top left: Trotec Speedy series, Gravotech LS series 	unchecked		
Unit		Set the display unit in this screen.	unchecked		

11 Tiling (@ P.5-5)

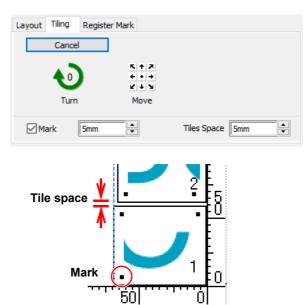
This function can not be used with CF3 (M-Head).



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

(Important!)	 When using the tiling function with the CFL-605RT or CF22-1225, you cannot use ID cut. You cannot output multiple tiles at once when the Gravotech LS series is selected. Output one tile at a time. When "DCF-605PU(Digital coating machine)" is selected, this function cannot be used.
--------------	---

• Layout of divided tiles Click [Separation] to display the setting screen as below.



Button Item		Description	Default
	[Cancel]	Cancels the division.	
Turn		Rotates the object clockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark.	0
5 + 7 + • + 2 + 1	Move	Click the desired direction of arrow to move the divided objects within the sheet.	
Mark (except CF3 (M-Head) / CFX (R10-Head))		Marks the divided objects. Select or input the mark size on the size column. Paste the divided objects together on the marks.	
Tiles Space		Sets the space between divided objects when cutting continu- ously.	

12 Register Mark

CG-EX series

Layout Tiling Re	gister Mark			
Exit Detectio	n Mode	Mark Size	e: 10	Omm
		Register I	Mark Info	D
Plotter:	\leftrightarrow	143.5mm	\$	182.65mm
Data:	\leftrightarrow	143.46mm	\$	182.97mm
Correct Size	: ↔	-0.02%	\$	+0.18%

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

	Layout Tiling Register Mark	
	Exit Detection Mode Mark Size: 10mm ID Certification Mode ID Certification Mode Mark Size: 10mm	
		- Continuous cutting
	Search Position First Time r r r r r r r	
• CF2, DC, CF3, CF)	((except free register mark) series	
	Layout Tiling Register Mark	
	Exit Detection Mode Mark Size: 10mm	
	$\blacksquare \qquad Repeat \leftrightarrow \blacksquare \qquad \textcircled{1} \qquad \textcircled{1} \qquad \textcircled{1}$	Continuous cutting
	Reverse Cut Mode Search Position	
	Surface Register Mark Cut Backside Data Cut	
,	When the mark is separated	
	Layout Tiling Register Mark	
	Exit Detection Mode Mark Size: 10mm	
	CutArea No.	
	Reverse Cut Mode Search Position	
	Surface Register Mark Cut Backside Data Cut	
● CFX series (exclud	ding free register marks)	
	Layout Tiling Register Mark	
	Exit Detection Mode Mark Size: 10mm Size Adjust Size Adjust	
	Repeat ↔ 1 ↓ 1 ↓	 Continuous cutting
	Margin ↔ 10.00mm + 10.00mm + 10.00mm +	
	When using reverse cut mode	
	Layout Tiling Register Mark	
	Exit Detection Mode Mark Size: 10mm	
	Repeat 1	Continuous cutting

Edge Detection

Set...

Reverse Cut Mode

🔁 🗘

When the mark is separated

	Layout Tiling Register Mark
	Exit Detection Mode Mark Size: 10mm
	CutArea No. 1 🗧
	 Reverse Cut Mode Surface Register Mark Cut Backside Data Cut
• CFX series (free r	egister marks)
	Layout Tiling Register Mark
	Exit Detection Mode Mark Size: 12mm
	Repeat 1 1 \bullet Continuous cutting Margin \leftrightarrow 10.00mm \uparrow 10.00mm \bullet
	When using reverse cut mode
	Layout Tiling Register Mark Exit Detection Mode Mark Size: 10mm
	Repeat 1 Continuous cutting
	Reverse Cut Mode Edge Detection Image: Cut Mode Set
• CFX series (round	l register marks)
	Layout Tiling Register Mark Exit Detection Mode Mark Size: 12mm
	Repeat \leftrightarrow 1 + Continuous cutting
	Margin ↔ 10.00mm 🖨 ‡ 10.00mm
CFL-605RT	
	Layout Tiling Register Mark Mark Size: 10mm
	Exit Detection Mode
	Repeat ↔ 1
	Outer Frame Register Mark Cut Backside Data Cut
	When the mark is separated
	Layout Tiling Register Mark
	Exit Detection Mode Mark Size: 10mm
	CutArea No.

Search Position

• CF22-1225	
	Layout Tiling Register Mark
	Exit Detection Mode Mark Size: 10mm
	$\fbox{\begin{tabular}{ c c c c } \hline \hline$
	Reverse Cut Mode Search Position
	When the mark is separated
	Layout Tiling Register Mark
	Exit Detection Mode Mark Size: 10mm
	CutArea No.
	Reverse Cut Mode Surface Register Mark Cut Backside Data Cut
Trotec Speedy Sei	ries, Gravotech LS series
	Layout Tiling Register Mark
	Exit Detection Mode
DCF-605PU (Digita	al coating machine)
	Layout Register Mark
	Exit Detection Mode
	Search Position
CFX Series (teach	ing
	Layout Tiling Register Mark
	Exit Teaching Teaching Offset
	Repeat \leftrightarrow 1 \Rightarrow 1 \Rightarrow Continuous cutting
	Margin ↔ 10.00mm ↓ 10.00mm ↓ Reverse Cut Mode Search Position Search Position Teaching all at once in advance Set
	Layout Tiling Register Mark
When using reverse cut mode	Exit Teaching Offset
	Repeat 1 Continuous cutting
	Reverse Cut Mode Edge Detect Search Position Image: Constraint of the search Position Image: Constraint of the search Position

ltem	Description	Default
[Detect Mark]/ [Exit Detection Mode] button	Corrects the angle and the size of the detected register mark. Click [Exit Detection] to cancel the detection.	
Setting of continuous cutting (except Trotec Speedy Series and Gravotech LS series, DCF-605PU (Digital coating machine))	Select the roll sheet (multi-mode) or the leaf sheet (single mode), and set the number of continuous cutting.	Roll Mode (Multi Mode)
Margin (CFX series (free register marks))	Sets the margins for register mark sets when multi mode is selected. • Range: ± data size	
Search Position (except Trotec Speedy Series and Gravotech LS series)	Select the search position of the register mark. For CG, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC, select the first detecting position on upper boxes, and select the second or subsequent detecting position on lower boxes.	First Time
ID Certification Mode (CG-75ML)	Check this when cutting with ID certification mode by CG-75ML.	unchecked
Size Adjust (except Trotec Speedy Series and Gravotech LS series, DCF-605PU (Digital coating machine))	 When the size of the actual data and the printed media are different due to the media type or printing environment, the frame can be cut aligning with the printed media. When cutting fixed-shape items like paper packs, uncheck [Size Adjust]. If checked, the size may be misaligned. For the CFX series, when this is off, the drawing is aligned by using the setting for [Plot base point] (@ P.7-29). 	checked
Reverse Cut Mode (CF2, DC, CF3, CFX series, CFL-605RT, CF22-1225)	Cuts from the back, not from the printed face. (CF2, DC, CF3, CFX series: @P.3-40, CFL-605RT: @P.3-40, CF22-1225: @P.3-63) For the CFX series, edge detection can greatly simplify the process. @P.5-48	unchecked
When the mark is separated (CF2, DC, CF3, CFX (excluding free register marks) series, CFL-605RT, CF22-1225)	Select the cut area No. and the search position of the mark to cut. (CF2, DC, CF3, CFX series: @P.3-38, CFL- 605RT: @P.3-46, CF22-1225: @P.3-61)	

13 Color / Layer

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

- Only the objects that are checked at the check box on the left are cut.
- Objects are cut in order of the list from the bottom to the top. Drag and move each line to change the cutting order.
- In the color list, click the fill color or stroke color to display each information.
- Click the button on the upper right to specify the output condition. (Except Gravotech LS series and DCF-605PU(Digital coating machine))



[Plot Out] Screen

Set for output. To display this screen, click	(Plot button) in the Plot screen.	
P	lot Out ×	
	Plotter Condition	uttons
Plot Condition —	Select Condition Paper Cancel	
	Save As File	
	Plot Condition on each Color or Layer Color Mane / Layer Mane Plot Condition Name Edit Trace	
	ID Cut Select Hot Folder © EPS PDF	
	Options ⊡Sort □Use the Outside	
	All Vacuum ON Before Output	
Options —	Each Layer Decum OFF After Output	
-	I Head Withdrawal After Plot	
	Set	
	Optimize Cutting Start Position Optimize Cutting Direction	
l l		

Plot Condition

Select the output condition. Settings differ from the selected model. (2 P.7-4 "[Plotter / User Setup] Screen")

CG (Except CG-FXII Plus, CG-AR series), CJV30, TPC, CJV300/150, CF, CF2, DC, CF3 series

Plotter Condition				
Select Condition	CUT1-Panel Setup	~		Edit
Custom	Tool	CT1		\sim
	Speed	2	0	cm/s
	Press	10	0	g
	Offset) _	mm
Plot Condition on each Co	olor or Layer			
Color Name / Layer Name				

CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225

Select Condition	CUT1-Panel Setup	\sim	Edit
Custom	Tool	CT1	\sim
	Speed	3	³⁰ 🗘 cm/s
	Press	10	00 🌲 g
	Press		* 9
Plot Condition on each	 ☐ Offset		0 ↓ mm
Plot Condition on each Color Name / Layer Nam	Color or Layer		
	Color or Layer		
Color Name / Layer Nam	Color or Layer		0 🔹 mm

• Trotec Speedy series

0.6	%
0.6	• %
	· /0
100 🌲	%
5000 🌲	Hz
	100

• Gravotech LS series

Plot Condition				
 Select Condition 	Acrylic_3mm_2	5W	\sim	Edit
Custom				
	Speed	5	%	
	Power	100 🗘	%	
	Resolution (DPI)	500	\sim	

DCF-605PU(Digital coating machine)

Plot Condition			
	Acrylic_2mm_Normal	\sim	Edit

• CFX (excluding the R10-head)

Select Condition	Paper	~	Edit
-Plot Condition on each	Color or Layer		
– Plot Condition on each Color Name / Layer Plot Condition Name			Edit
Color Name / Layer			Edit



	Sample Of Milling	~	Edit
Plot Condition on each Colo	or or Layer		
Plot Condition on each Colo Color Name / Layer Name Plot Condition Name	or or Layer		∽ Edit
Color Name / Layer Name	or or Layer		∽ Edit

Item	Description
Plotter Condition (Default) (Excluding the CF3 (M-head), CFX series(R10-head), Trotec Speedy series, Gravotech LS series, and DCF- 605PU (digital coating machine))	 Plots with the output condition set on the plotter. This function is not available when using the CF3 (M-head), CFX series(R10-head), Trotec Speedy series, or the Gravotech LS series.
Select Condition	Select the plot condition set on FineCut/Coat. Click [Edit] button to add media, or to set cutting conditions by media types. (@ P.7-5)
Custom (Excluding the CF3 (M-head), CFX series, and the DCF-605PU (digital coating machine))	Set plot condition on this screen. ((P.7-5)
Color Name / Layer Name	If you have set output conditions by color/layer on the Plot screen, you can check the output conditions here.(P.5-12)
Plot Condition Name	Click [Edit] to set cutting conditions by media types. ((28) P.7-5) •You cannot [Edit] or [Delete] media names on this screen.
ID Cut [Select Hot Folder] (Only when the CG-FXII Plus, CG- AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225, or CFX series is selected)	 Select the hot folder of RasterLink 6 Plus to send ID data and print data.(P.5-16) 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.
[EPS]/[PDF] (Only when the CG-FXII Plus,CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL- 605RT,CFX series, or CF22-1225 is selected)	Print data format: Select [EPS] or [PDF].

In the case of specifying output conditions or tools on each color or layer, the conditions cannot be edited on this screen. Instead, click
 button on the right of Color / Layer tab in Plot screen and select [Edit Plot Condition...]. (Except Gravotech LS series, DCF-605PU (Digital coating machine))

Image: C=0,M Select All Colors Image: C=80,r Deselect All Colors Image: C=80,r Specify The Plot Condition On Each Color Image: C=80,r Specify The Plot Condition On Each Color	Deselect All Colors	Color Layer	
Image: C=80,r Deselect All Colors Image: None Specify The Plot Condition On Each Color	Image: C=80,r Deselect All Colors Image: C=80,r Specify The Plot Condition On Each Color Specify The Tool On Each Color	C=0,M	Select All Colors
specify the flot condition on Each color	Specify The Tool On Each Color		Deselect All Colors
Specify The Teel On Each Color		🔽 🗙 🗖 None	Specify The Plot Condition On Each Color
" Specify the tool on Each Color			Specify The Tool On Each Color

Options

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

CG (Except CG-AR series), CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series

	Options	
	Sort ⓐ All ⓒ Each Layer	Sheet Feed
	Change the Cutting Start Po	sition
	Head Withdrawal After Plot	
CG-AR series		
	Options	
	Sort Sort Each Layer Change the Cutting Start Posit Head Withdrawal After Plot Set	Sheet Feed
	Double pass creasing (CRE)	

• CF, CF2, DC, CF3/CFX (except M Head) series, CFL-605RT, CF22-1225

Options	
opuona	
Sort Sort	Use the Outside
All	
O Each Layer	
Change the Cutting Start Position	
Head Withdrawal After Plot	
Set	
Optimize Cutting Start Position	
Optimize Cutting Direction	

• CF3 (M-head) series

Options					
Sort		Use the Outside			
All					
🔵 Each Layer					
Change the Cutting Sta	art Position	Ajust start / end			
Head Withdrawal After Plot		Joint Setting			
Set		Joint	1	* *	pcs
Optimize Cutting Start Position	Length	3	* *	mm	
	Height	1	*	mm	
		Pause			

• CFX (excluding the R10-head) series

Options	
Sort	Use the Outside
All	Vacuum ON Before Output
🔿 Each Layer	Vacuum OFF After Output
Change the Cutting Start Position	Flute Direction
Head Withdrawal After Plot Set Optimize Cutting Start Position Optimize Cutting Direction Check the cutting range	
2 pts: Origin and diagonal	
Edge Detect	

• CFX (R10-head)

Options				
Sort Sort	Use the Outside			
 All 	Vacuum ON Befor	e Output		
🔿 Each Layer	Vacuum OFF Afte	r Output		
Change the Cutting Start Position	Ajust start / end			
Head Withdrawal After Plot	Joint Setting			
Set	Joint	1	*	pcs
Optimize Cutting Start Position	Length	3	- <u>+</u>	mm
Opumize Cuturing Start Position	Height	1] mm
Check the cutting range	✓ Pause			
2 pts: Origin and diagonal $$				
Edge Detect				
Set				

• Trotec Speedy series, Gravotech LS series

Options	
☑ Sort	
All	
◯ Each Layer	
Change the Cutting Start Position	

DCF-605PU (Digital coating machine)

Options			
Liquid Level	52.03% (520.3cc)		
Enable coating misalignment correction during the Preview			

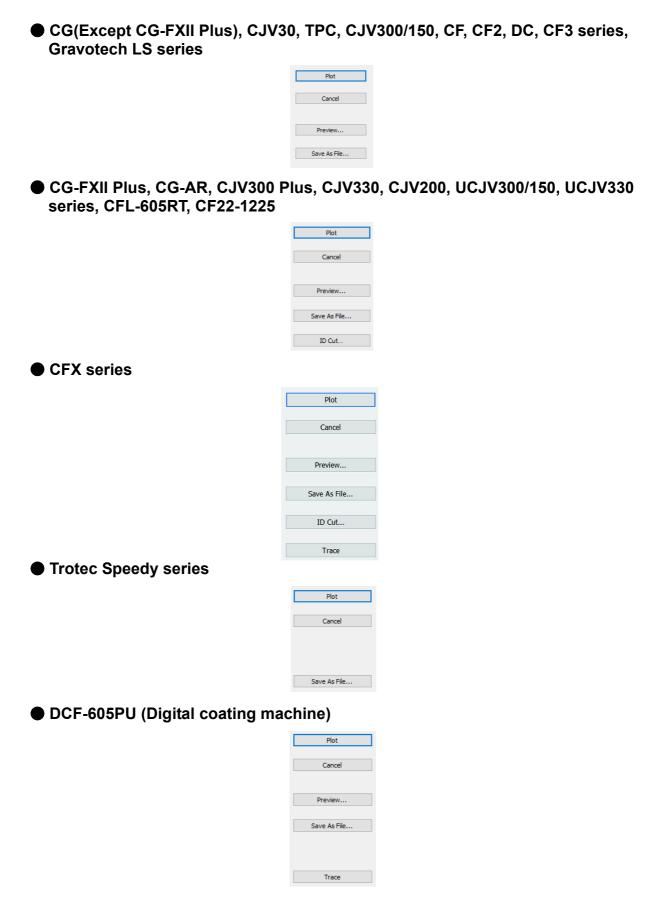
ltem	n	Description	Default
Sor (Except DCF-605PU machin	J (Digital coating	 Optimizes cutting order of an object automatically. If unchecked, the object is cut from the bottom of the list of the color / layer / Tile. CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series Sorts to minimize the extra head movement for efficient cutting. CF, CF2, DC, CF3, CFX series, CFL-605RT, CF22-1225 Sorts to minimize the extra head movement, and to cut the inside objects first. 	checked
	All	Optimizes cutting order of all the objects.	checked
	ach Color/ Layer/Tile	Optimizes cutting order by each color / layer / tile.	
	ange the Cut- Start Position	 Automatically changes the cutting start position to the shortest distance. When the [Change the Cutting Start Position] checkbox is selected, the following functions are disabled. Optimize Cutting Start Position Optimize Cutting Direction 	OFF
Head Withdrawal After Plot (Except Trotec Speedy series, Gravotech LS series, DCF- 605PU(Digital coating machine))		 Moves the head to the set position after cutting object. (P.5-24 "Setting Head Position after Plotting") This function is not available in the following cases: When [Auto Cut] is checked. When [X Direction Division Cut] is checked with the CG-AR series. 	checked
Sheet F (MGL-IIc for CG		Before cutting data, feeds the sheet and confirms whether the entire data can be cut.	unchecked
		 If plotting fails, an error appears on the plotter. In this case, stop plotting, reset the sheet, then restart plotting. 	

	ltem	Description	Default
(CG-F) CJV30,CJV30 CJV330, CJV	uto Cut X/FXII/75ML, 0/150, CJV300 Plus, 200, UCJV300/150, series, TPC only)	When cutting a roll sheet continuously, the sheet is separated automatically after cutting. (Correct P.3-29).	unchecked
	s Creasing (CRE) G-AR series)	Creasing tool (CRE) data is output twice.Check this option when it is difficult to form a crease with a single output.(unchecked
	on Division Cut G-AR series)	Performs division cutting in the feed (X) direction, minimiz- ing cutting offset due to sheet meandering.(@P.5-30)	unchecked
P (Only when th CFX series, CF2	e Cutting Start osition e CF, CF2, DC, CF3, 2-1225, or CFL-605RT selected)	 Optimizes the start position of cutting to finish finely. If unchecked, cutting starts from the position that the data started to draw, or the start position set on the setting tool (@P.6-3). If this is checked, please note that the cutting start position set on the setting tool becomes invalid. 	checked
(Only when th CFX series, CF2	Cutting Direction e CF, CF2, DC, CF3, l2-1225, or CFL-605RT selected)	All cut directions are counterclockwise when cutting by using closed path data. (\Im P.6-5)	checked
	e cutting range series only)	Checks that the cut data fits on the media before beginning cutting.	checked
	2 pts : Origin and diagonal	Checks in the points indicated below.	checked
	4 pts : Output range vertices	Checks in the points indicated below.	
(Only when th CFX series, CF2	he Outside e CF, CF2, DC, CF3, 2-1225, or CFL-605RT selected)	Cuts out inside of the object to use the outside. If checked, offset direction is optimized.	unchecked
-	je Detect series only)	Detects the edge of the work, allowing you to cut it accurately at any position. (P.5-50)	unchecked
	N Before Output series only)	Turns on the main unit vacuum to suck down the work before output.	unchecked
	FF After Output series only)	Turns off the main unit vacuum after output.	unchecked
	e Direction series only)	 The pressure of the ruling roller can be automatically adjusted according to the flute (corrugation) direction of the cardboard core. The [Flute Direction] setting in the Output Condition Setup (P.7-15) is reflected. 	unchecked
[Vertical	Select when the flutes are perpendicular to the plotter table.	checked
	Horizontal	Select when the flutes are horizontal to the plotter table.	

	ltem	Description	Default
Adjust start / end (Only when the CF3 (M-head) / CFX series (R10-head) is selected)		 An object is cut from 2 mm away from the object. (If the outside is not used, use this function to cut start / end position finely. When using the CF3 (M-head) / CFX series (R10-head), be sure to check the start position of cutting on the preview after setting. If the cutting line goes over the next object, space among objects on CoreIDRAW. 	checked
(Only when th	nt Setting e CF3 (M-head) / CFX D-head) is selected)	Leaves a part of the cutting line, and cuts it last. It prevents the work from misaligning and makes the cutting surface fine.	checked
	Joint	Set the number of joint (places to leave).	1
	Length	Set the length to leave.	3
	Height	Set the height to leave.	1
	Pause	Select to withdraw the head and to fix the media with tape. (\textcircled{P} P.5-45)	unchecked
Liquid Level (DCF-605PU (Digital coating machine))		The remaining liquid level is displayed as a percentage and in cc.	-
Enable coating misalignment correction during the Preview (DCF-605PU (Digital coating machine))		Checking [Enable coating misalignment correction during the Preview] displays the filling lines based on [Misalign- ment Correction] when [Preview] is clicked.	checked

Buttons

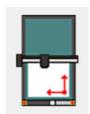
The display content varies depending on the selected model. (@P.7-4 "[Plotter / User Setup] Screen")



ltem	Description	
[Plot]	Starts plotting as the set conditions.	
[Cancel]	Cancels plotting.	
[Preview] (Except Trotec Speedy series)	Previews the plotting with the set condition. Confirm the plotting by preview and adjust the settings. (P.5-26 "Checking the Cutting Process by Preview") • Before starting plotting, be sure to check the cutline on the preview.	
[Save as file]	Saves the plot data in a plot file. Select the folder and click [Save].	
	Specify the file name to be stored on Save if FineCut Save if FineCut My Recent Desitop My Computer My Computer Save if the name: File name: File name: File name: Save at type: *** Cancel	
[ID Cut] (CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series,CFL-605RT, CF22-1225)	Send ID data and print data to hot folder of RasterLink.(@P.5-16 "Link Cut and Print (ID cut)")	
[Trace] (Only when the CFX series, DCF-605PU (digital coating machine) is selected)	 When using the CFX series, this allows you to move the head around the cutting path and trace it with a laser pointer without actually cutting. When using the DCF-605PU (digital coating machine), this allows you to move the head without printing the top coat, allowing you to check the coating position. 	

Status Display

• CFX series



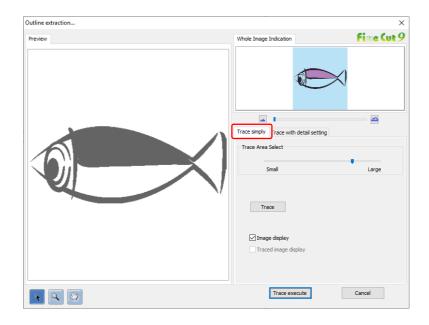
ltem	Description
Toggle StateDisplays the main unit toggle state.(28 P.5-50)	

[Outline Extraction] Screen

Create outline to cut bitmap images.

To display this screen, click ([Outline Tools] button) in the FineCut/Coat Command Bars.

Trace simply



Item	Description
Preview	Displays the image (monochrome) and the traced image.
×	Moves all the object being displayed.
9	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.
	Changes the displaying area of the object.
	Zooms in and out the preview.
Trace Area Select	Drag the slider to select the tracing area.
	Move to [Small] to trace narrower area. Move to [Large] to trace wider area.
[Trees]	
[Trace]	Click this to check the traced image on the preview.
Image display	Select whether the image to be traced is displayed on the preview or not. If checked, a trace area set on Trace Area Select is displayed in gray. You can confirm the outlines to be extracted or compare the image and the traced image.
Traced image display	Select whether the traced image is displayed on the preview or not. It becomes active when [Trace] button is clicked.

Trace with detail setting

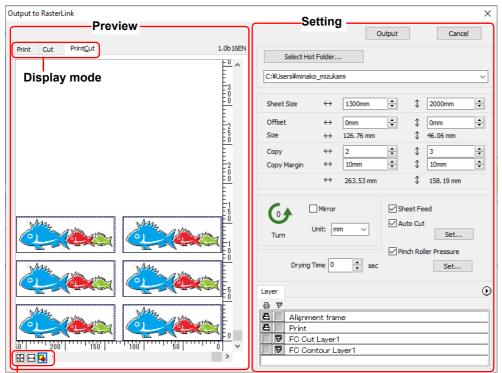
Item	Description	Default
Preview	Displays the image (monochrome) and the traced image.	
	Moves all the object being displayed.	
٩	Zooms in and out the preview. Click on the preview to enlarge the view. To reduce the view, click on the layout area as pressing down the [Alt] key.	
*	Changes the displaying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

Item	Description	Default	
Trace Setting (recommended	Trace Setting (recommended setting)		
Beautiful	Creates detail outlines.	checked	
Fast	Extracting time is fast but the details of the outline is rough.		
Trace Setting (detail setting)			
Line length	Specify a length for one line. The shorter the line becomes, the more elaborate in detail.	1.7pt	
Angle	Specify an angle for the top shape of line. The angle increases by angle becoming small, and the curvilinear increases by angle becoming large.	50	
[Trace]	Click this to check the traced image on the preview.		
Trace Setting (common to the recommended setting and the detail setting)			
A	Extracts only the outline.	unchecked	
Dust Removal	Delete the line that is shorter part than the specified length. Remove the extra lines created by scanning.	1pt	
Image display	Select whether the image to be traced is displayed on the preview or not. If checked, trace an area set on Trace Area Select is dis- played in grey. You can confirm the outlines to be extracted or compare the image and the traced image.	checked	
Trace line display	Displays selected tracing area. Click square on the right to change the display color of the tracing area.	checked	
Traced image display	Select whether the traced image is displayed on the pre- view or not. Click square on the right to change the display color of the traced image.	checked	

[Output to RasterLink] Screen

When using CG-FXII Plus, CG-AR, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, Trotec Speedy series, CFL-605RT, CF22-1225 or TPC, set items to output print data and cutting data to RasterLink.

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



Zoom size display

Preview

Displays image of an object.

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



• The display type of this screen can be set on "Plotter / User Setup" screen. (@ P.7-33)

Setting

Item	Description	Default
[Cancel]	Cancels the setting.	
[Output]	Set EPS and output a data to RasterLink.	
🔥 mark	Appears if an image gets out of the sheet by the object size or the copy setting.	
[Select Hot Folder]	 Select a hot folder of RasterLink. The hot folder name selected before can also be selected from the list. If hot folder does not exist, create it on RasterLink. The folder created from the [Create a new folder] button of the folder reference screen does not work as a hot folder. Create a hot folder from RasterLink. 	
Sheet Size ^{*1}	Enter an effective sheet size (width and length) set on the plotter. Effective size can be checked on RasterLink.	
Offset ^{*1}	Set an offset (horizontal/ vertical direction) from the origin on the lower right of the sheet.	0
Size ^{*1}	Displays the vertical and horizontal lengths of an object.	
Copy ^{*1}	Enter the number of copies of one object along the horizontal and vertical directions.	
Copy Margin ^{*1}	Enter the margin between the copied objects along the horizontal and vertical directions.	
Turn ^{*1}	Rotates the object anticlockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark.	
Mirror ^{*1}	Reverses the right and left of the object image and cuts it.	
Unit ^{*1}	Set the display unit in this screen.	
Sheet Feed ^{*1}	Feeds the sheet before plotting to check whether the entire data can be plotted.	
Auto Cut ^{*1} Pinch Roller Pressure ^{*1}	When cutting a roll sheet continuously, the sheet is separated automatically after completing the plotting. [Set] button becomes effective with this item checked. On the screen below, set the margin length from maximum data length (the length from the final line to the cutting position) and cutting a data at every line. (IPR-3-29) Sets the pinch roller pressure. [Set] button becomes effective with this item checked. On the screen below, set the pinch roller pressure. [Set] button becomes effective with this item checked. On the screen below, set 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).	checked
Drying Time ^{*1}	Set drying time of media after printing.	0

Item	Description	Default
Item Layer	Description Select/Set the layer to print or plot. Implement frame Implement frame	Default
	 Setting by layer *1 Click () button and select [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each Layer]. Then, select the cutting condition or tools on the right column of the layer names. 	

*1. You cannot use this for the Trotec Speedy series.

- *2. Output to RasterLink is possible when you select CG-FXII Plus, CG-AR, CFL-605RT or CF22-1225, which support ID Cut (P.5-16) and can produce multilayer printing plates. In this case, the cutting icon cannot be selected.
 - When both the print and the cut are marked on the Layer screen shown above, the plotter prints, and then cuts the object. If the printing layer has a register mark created with the register mark creation of FineCut, it reads the register mark position after printing, and cuts on the more accurate position.
 - When only cutting is marked on the layer screen, include the register mark in the cutting layer to cut with the register mark loaded.
 - If not setting [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each Layer], it plots with the setting of the plotter.
 - Data is placed with the margin of 0.5mm around.(For the Trotec Speedy series, the data is laid out without margins.)

(Important!)	 When cutting with the register mark loaded, set [1Pt] on [MARK DETECT] of CJV30,CJV300/ 150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC as the number of register mark detection.
	 When creating the register mark on the register mark creation of FineCut, uncheck [Leave a rectangle as the cutting line]. If checked, the plotter cuts with a part of the rectangle missed. (@ P.3-8)
	(Activating [Outer Frame Cut] of Cut Condition screen is recommended.)
	 When printing type2 register mark (「コ), space between copies for at least the register mark size. (② P.3-8)
	 Create only one set of register mark on CorelDRAW. 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 Ver.1.2 or later will cut with each layer setting.

[About FineCut/Coat] Screen

Displays the operation manual of FineCut/Coat and the latest information (online information). Click [About FineCut/Coat] button) in the FineCut/Coat menu.

About Mimaki FineCut/Coat	×	
<i>М</i> ітакі Бі те (ut/Coat9	
Serial Key: (0) 2001 - 2020 MIMAKI ENGINEERING OO LTD. All rights reserved.		
Operation Manual	Online information	
http://mimaki.com/	OK	

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

Setting Cutting Start Position

The start position of cutting an object can be specified.

Click King ([Cut Start Position Setting] button) in the FineCut Command Bars.



 When using the CF, CF2, DC, CF3, CFX series, CFL-605RT, or the CF22-1225, uncheck [Optimize Cutting Start Position] on the [Plot Out] screen. If checked, the cutting start position set below becomes invalid.



Item	Description	
Current cutting start position Indicates with a red square dot.		
Setting cutting start position	Click a target node while holding down the Shift key. The set node turns red.	

[Online Information] Screen

Displays the latest information and update information of FineCut/Coat.

(Important!) • This screen is not displayed when unconnected to Internet.

- - This screen is also displayed by clicking [Online Information] from *i* of FineCut/Coat Command Bars.
 - This screen is displayed only in English or Japanese.

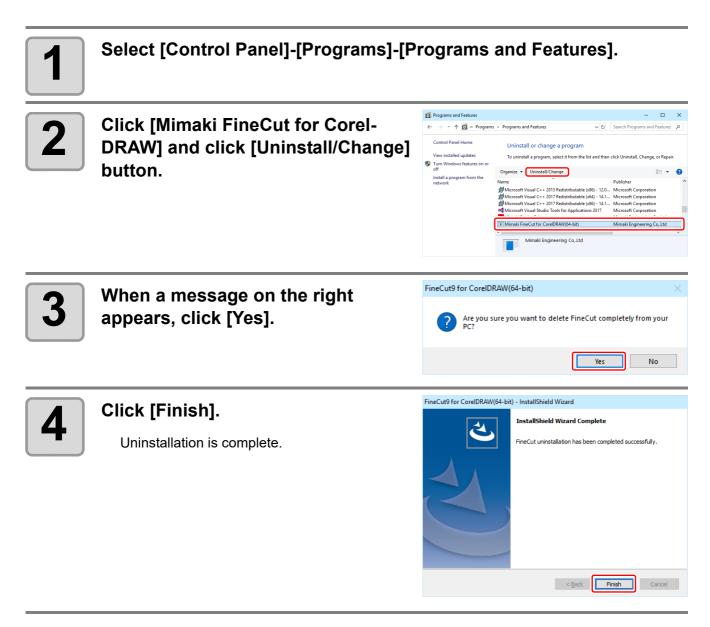
🔎 FineCut Onl	ine Information		-		×	
Check	Release Date 2019-10-01 2019-10-01	Topics FineCut 9.1.0 released Supported CoreIDRAW 2019]		– List
Description: Details: URL:			[Close		

Item	Description
List	The list of FineCut/Coat information is displayed. Click to display the information on the bottom column of Outline. Double-click to display the detailed information on Web browser.
Check	Put a check if the information is checked. Checked items are not displayed when starting CorelDRAW next time. (However, if starting [Online Information] from FineCut/Coat Com- mand Bars, the checked items are also displayed.)
Release Date	It is the released date of the information.
Topics	It is an outline of the information.
Description	Details: The details of the information selected above is displayed. URL: Click to display the detailed information on Web browser.

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Uninstallation of FineCut/Coat

To uninstall FineCut/Coat, follow the procedures below.



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CHAPTER 8 Troubleshooting



This section describes the troubles and the solutions.

Communication port error occurs while plotting
Sheet size does not change 8-4
A part of contour protrudes 8-4
Note for trapping 8-5
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data including image 8-6
LAN connection fails in "CJV300 Plus series", "CJV330
series", "CJV200 series", "UCJV300 / 150 series", or
"UCJV330 series" 8-7
Register mark created with FineCut cannot be recognized 8-7
Error Messages
CorelDRAW Object List

Troubleshooting

Communication port error occurs while plotting

When using a driver software for the tablet, printer diver, or other peripheral devices using the serial port, the following error may occur as clicking (Plot button).

In this case, change the setting to use the other port.

Mimaki F	-ineCut	x
1	Cannot find the communication port. Check whether the communication port of "Plotter / User Setup" is set (up correctly.
	C OK	
	Mimaki FineCut	
	Cannot send data to the plotter. Check whether the cable is connected correctly.	
	ОК	

Sheet size does not change

When the MGL-IIc commands are used

The sheet size does not change even if shifting the origin on the plotter and click (C) (Sheet Loading button).

FineCut always displays the sheet size set on the plotter. In this case, the data may be cut overflowed even if the data fits into the cutting area in the layout area.

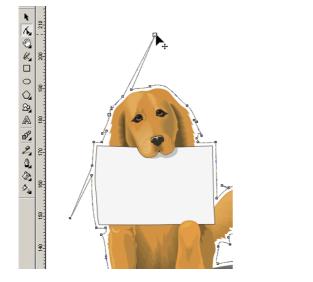
When the MGL-Ic commands are used

FineCut displays the effective cutting area. Therefore, even if shifting the origin on the plotter, the data can be cut normally when the data fits into the cutting area.

A part of contour protrudes

A part of contour created with Frame Extraction of FineCut may protrude.

In this case, double-click the protruded node, and delete the part with the Shape tool of CorelDRAW. For other node editing functions, refer to the operation manual of CorelDRAW.

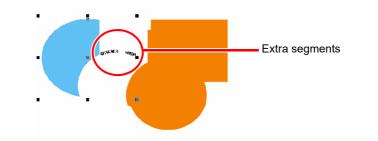


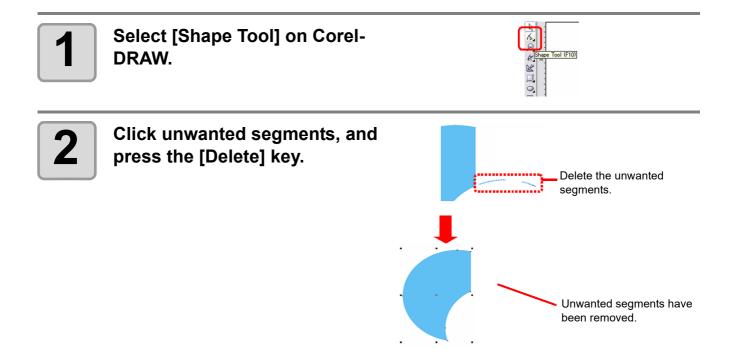


Note for trapping

When cutting trapped objects with plotters, some extra segments may be cut, because extra segments are left while trapping.

To delete the unwanted segments, follow the procedures below.

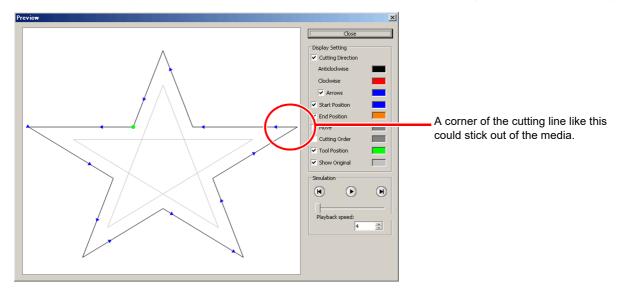




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Note for cutting an object with a sharp corner

Depending on the offset setting, cutting line may stick out of the media (when offset is large), or may cut inside of the object (when offset is small). Check the previews before cutting and adjust the cutting line.



The cutting line of some objects may protrude as the figure above.

In this case, create an offset on [Frame Extraction], edit cutting data on CorelDRAW, and then cut it by milling.

To cut the cutting line, uncheck the [End Mill Diameter] on Output Condition Setup screen.

Cutting and printing are misaligned when ID cut outputting the data including image

Cutting and printing may be misaligned when ID cut output data including images.

1	Select image data and create a frame at offset 0.03 mm by [Offset Path].	Offset Path Offset: 0.03mm Extract the inside OK Cancel	×
2	 Make sure that the frame at offset 0.03 mm is not output. On the [Plot] screen, make the following settings. Turn on "Origin Lock" checkbox on the [Layout] tab. Turn off "FC Frame Layer" checkbox on the [Layer] tab. 	Layout Tiling Register Mark	Layout

LAN connection fails in "CJV300 Plus series", "CJV330 series", "CJV200 series", "UCJV300 / 150 series", or "UCJV330 series"

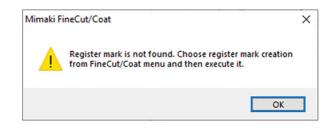
When using "CJV300 Plus series", "CJV330 series", "CJV200 series", "UCJV300 / 150 series", or "UCJV330 series", if you select and output [LAN] on the [Plotter / User Setup] screen-[Communication] tab, the following message may be displayed and output may not be possible.



In this case, you can output correctly by restarting the machine.

Register mark created with FineCut cannot be recognized.

If you are using FineCut/Coat9 Ver2.3.1 or lower, Register mark created with Ver2.4 or higher cannot be recognized.



If you want to recognize Register mark with FineCut/Coat9 Ver2.3.1 or earlier, please create them with Ver2.3.1 or earlier.

Register Mark Creation Ver	Register Mark Detection Ver			
Register mark creation ver	Ver2.3.1 or less	Ver2.4 or later		
Ver2.3.1 or less	\checkmark	\checkmark		
Ver2.4 or later	N/A	\checkmark		

✓: Available

N/A: Not available

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.
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.
No USB plotter is recognized. Check whether the USB cable is correctly connected and the plotter is on.	Check the followings. • The USB driver has been installed. • The power of the plotter is ON. • The USB cable is connected correctly.
Media detection on the output equipment has not been completed. After media detection, execute again.	Occurs when CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC does not detect media. Execute media detection, and then execute again.
Plotter other than Mimaki plotter or Trotec Speedy series or Gravotech LS series is connected. FineCut is able to output to Mimaki plotter, Trotec Speedy Series or Gravo- tech LS series.	Connect Mimaki plotter, Trotec Speedy Series or Gravotech LS series.
Register mark is not found. Create register marks using the register mark creation menu of FineCut.	Create register marks on the register mark creation menu of FineCut.
Register mark data is not correct. Re- create the register mark using the register mark creation menu of FineCut.	Create register marks on the register mark creation menu of FineCut again.
No available paths for FineCut in this document.	Select an available data.
Fails to configure the internet connection. Confirm the setting.	Check the Internet connection and the settings of the PC.
This function is not available for the plotter model selected. Check [Model] on [Plotter/User Setup] screen.	Check that the plotter model has been correctly set.
Cannot write into the folder selected. Click [Select Hot Folder] button and check the folder.	Check the hot folder of RasterLink is correctly selected.
An unexpected error occurred.	Contact a distributor in your district to call for service.
No valid path.	Check the data.

CoreIDRAW Object List

- Be sure to save the data before executing command of the FineCut.
- Overlapped objects sequence may be changed on the [Plot Out] [Preview] screen.
- When executing FineCut command for Wrap Paragraph text, indent setting, or character string combined to an other path, release the Wrap Paragraph text and the character string combined to the other path.
- If [Plot], [Frame Extraction], or [Create Weed Line] fails, try to execute [Recognize Stroke Weight And Overlap]. It may solve the problem.
- When FineCut command fails, try the followings.
 - Reduce of increase the number of selection paths.
 - Draw or erase the outline in the path.
 - Remove complicated effects. (Disassemble character strings into path)
 - 1.Select an object to remove the effects.
 - 2.Select [Arrange] [Break Apart] menu, [Arrange] [Convert To Curves] menu, or [Arrange]-[Command starting with Break^{*1}]
 - (^{*1} A name is different depending on the running effect type)
 - 3.Repeat step 2.

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CorelDRAW object list in FineCut function

✓ : AvailableP/A : Partially available

N/A : Not available

	Function					
Figure	Plot	Plot Selected Path	Recognize Stroke Weight And Overlap	Frame Extraction	Trapping	Milling Cut
Rectangle	✓	✓	✓	✓	✓	✓
Ellipse	✓	✓	✓	✓	√	✓
Curve	✓	✓	✓	✓	√	✓
Polygon	✓	✓	✓	✓	✓	✓
Star	✓	✓	✓	✓	✓	✓
Complex Star	✓	✓	✓	✓	✓	✓
Perfect Shapes	✓	✓	✓	✓	√	✓
Artistic Text	✓	✓	✓	✓	\checkmark	P/A
Paragraph Text	✓	✓	✓	✓	√	P/A
Bitmap	N/A	N/A	N/A	N/A	N/A	N/A
Group	✓	✓	✓	✓	√	✓
Combine	P/A	P/A	P/A	✓	\checkmark	✓
Mesh Fill	N/A	N/A	N/A	N/A	N/A	N/A
Smart Fill	✓	✓	✓	✓	√	✓
Blend	✓	✓	✓	✓	\checkmark	✓
Contour	✓	✓	✓	✓	√	✓
Distortion	✓	✓	✓	✓	√	✓
Drop Shadow	N/A	N/A	N/A	N/A	N/A	N/A
Envelope	✓	\checkmark	✓	✓	√	✓
Extrude	P/A	P/A	P/A	P/A	P/A	P/A
Extrude Bevel	P/A	P/A	P/A	P/A	P/A	P/A
Transparency	✓	✓	✓	✓	√	✓
Artistic Media	✓	✓	P/A	P/A	P/A	P/A
Connector	✓	N/A	P/A	P/A	P/A	P/A
Dimension	✓	N/A	P/A	P/A	P/A	P/A
lens	✓	✓	✓	✓	P/A	P/A
Power Clip	✓	✓	P/A	P/A	P/A	P/A
Perspective	✓	✓	✓	✓	\checkmark	✓
Crop	✓	✓	✓	✓	✓	✓
Symbol	✓	✓	✓	✓	✓	✓
Smudge Brush	✓	✓	✓	✓	✓	✓
Roughen Brush	✓	✓	✓	✓	✓	✓
Roll Over	N/A	N/A	N/A	N/A	N/A	N/A
OLE Object	N/A	N/A	N/A	N/A	N/A	N/A
Internet Object	N/A	N/A	N/A	N/A	N/A	N/A
OLE Barcode	N/A	N/A	N/A	N/A	N/A	N/A
Guideline	N/A	N/A	N/A	N/A	N/A	N/A

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