

Plug-in Cutting Software



OPERATION MANUAL



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D201007

About FineCut

Thank you very much for purchasing a product of Mimaki.

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

System Requirements

The following conditions are required to use FineCut5.

Windows:

- · IBM PC or compatible mounting Pentium processor or compatible CPU
- Microsoft[®] Windows[®]98, Windows[®]ME, Windows[®]NT4.0 (service pack 3 to 6a), Windows[®]2000, Windows[®]XP (When connected to a plotter by USB, Windows2000 Service-Pack3, WindowsXP Service-Pack1, or later version is required.)

Macintosh:

- Macintosh mounting Power PC
- Mac OS 8.1 to 9.2.2, Mac OS X 10.1 to 10.3
 - (When connected to a plotter by USB, Mac OS 9.22, Mac OS 10.2.5, or later version is required.)

Monitor:

• 800 x 600 pixels, or higher resolution is required

Software:

• Adobe[®]Illustrator[®] 8 to 10, CS (English Version)

Plotter:

• Mimaki CG series, Mimaki CF-0912 series

Notes:

- Do not copy this manual in whole or parts in any form without prior approval from Mimaki.
- Do not copy this software to any other disk for the purpose of other than making a backup disk or load it in memory for the purpose of other than execution.
- Except for the damages prescribed in Warranty Notes of Mimaki Engineering Co., Ltd., Mimaki Engineering Co., Ltd. assumes no responsibility for effects (including loss of income, indirect damages, special damages, or other financial damages) resulting from the use or non-use of the product. This also applies to the case when Mimaki Engineering is notified of the possibility of damages. For example, Mimaki Engineering Co., Ltd. assumes no responsibility for damages of media (work) caused by using this product and indirect damages caused by a product created using the media.

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Installation procedure (Windows)

For more detail, refer to "Read me.pdf".

- 1 Turn on the power of the personal computer and then start Windows.
- 2 Set the CD-ROM of FineCut into the disk drive.



3

The Software License Agreement screen appears.

oftware License Agreement	X
Please read the following License Agreement. Press the PAGE DOWN key to see the rest agreement.	of the
SOFTWARE LICENSE AGREEMENT Please read this Software, you agree to be bound by the terms of this agreement. If you do not agree the terms of this agreement, you should not install or use this Software, and the Software and any C thereof in the temporary memory or hard disk should be deleted promptly from the user's computer. Article 1 Definition of Terms 1."Software" shall mean the computer program that is supplied with this Agreement. 2."Copy" shall mean a program, which is, reproduces in accordance with the Article 2 for running th Software. 3."Related Material" shall mean the manual and any other Software-related documents provided wi	e ith
Do you accept all the terms of the preceding License Agreement? If you choose No, Setup will close install this product, you must accept this agreement.	». To No

Read this thoroughly and then click Yes .

4

5

Select the location to which the software is to be installed.

Choose Destination Location.		x
	Please choose 'Plug-ins' folder in the Adobe Illustrator(8.×10.×, CS) which installs Mimaki FineCut5 for Illustrator. ex.) C:\Program Files\Adobe\Illustrator 8.01\Plug-ins When you do not install Mimaki FineCut5 for Illustrator, please click 'cancel button and end an setup.	-
>	Space Required: 11156 K Space Available: 259800 K < Back Next > Cancel	_

Click Browse... , and then double-click the plug-in folder in the target Illustrator.

	Charles and a large Cills of the set	and a shark and share the state		
d: \program	hles\adobe\illustra	or cs\plug-ins		
Directories:				
🗁 Illusi	rator CS			OK
📂 Plu	g-ins			
🛅 Di	ctionaries			Cance
🚞 Ex	tensions			
🛅 Illu	strator Filters			
🛅 Illu	strator Formats		-	

Select the target plug-in folder, and then click on OK .

Return to the Choose Destination Location screen.



When in need of changing the destination directory, click Browse...

Installation starts.



To stop installation, click Cancel .

8

7

6

Setup procedure completes.





Installation procedure (Macintosh)

For more detail, refer to "Read me.pdf".

- 1 Turn on the power of the personal computer and then start Macintosh.
- 2 Set the CD-ROM of FineCut into the disk drive.
- 3 Open CD-ROM drive and double-click on the FineCut CD icon.



4 FineCut folder opens.



Double-click on the folder with the target Illustrator version.

Drag to the plug-in folder in the Illustrator that uses Mimaki FineCut folder.



FineCut installation completes.

A USB-serial adapter is required to use FineCut with the application of Macintosh USB port.

Mimaki recommends the optional USB-serial adapter (with a model number of OPT-SS036).

The USB-serial conversion adapter may not operate normally because of a problem between the adapter and the operating system of the computer. Before using an adapter from other manufacturers, contact the manufacture of the USB-serial adapter for existence of problems between the adapter and OS in use. FineCut Operating Manual describes the FineCut functions.

Notations

Menu items are enclosed in square brackets like [File] menu. Buttons displayed in a dialog are framed like Plot .

Symbols



Indicates a caution you must observe when operating the product.



Indicates a procedure you must perform.



Describes a useful procedure.



The following functions have been added.

- 1. Support of Adobe Illustrator CS
- Create a precut line [Weed Line] (Refer to page 29) Enables to create a precut line (called as Weed Line) around the object to remove with ease the unnecessary portion of the cut seal.
- Shadowing/Edging (Refer to page 26) Enables to create four kinds of shadows and edge with ease.
- 4. Select cut condition on each color/layer (Refer to page 39) Ebables to select cut condition on each color/layer.
- Specify the output condition directly (Refer to page 78) Enables to output a work by specifying condition on "PlotOut" display even if the output condition has not been registered.
- Move within a sheet/Fit to a sheet size (Refer to page 74)
 Enables to move an object at the center or corner of a sheet only by a click.
 Alternatively, it enables to enlarge or reduce the object within the sheet.
- 7. Save/Output a plot file (Refer to page 80) Enables to save/output a plot command data.
- 8. Improve the maximum cutting size from 10m to 51m



The following process shows how to cut ABC at the lower right of the A3 size sheet using Mimaki CG cutting plotter series.

Additionally, make a frame around the ABC, and cut it 5 mm away from the characters.





Activate Illustrator.

3

4

No need to set the paper size to A3 size. Display "FineCut menu" automatically.

Use the Lettering Tool to enter "ABC".



5

If "FineCut menu" is not displayed. Select [Show FineCut Menu] from the [Window] menu in the Illustrator.

Mimaki F	"ineCut	
Ī NĪ		
ÐØ	A 🖉 Fine	Cut 5

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

Alternatively, select [Plotter/User Setup..] from the [File]-[FineCut] menu.



Set the plotter.

Be sure to set the same values for Plotter and Communication as the settings on the plotter. (Refer to page 66)



7

If the entered values differ from the settings on the plotter, the object will not be output normally.

Plotter Communication Plot Dialog Alert Display	\	
Model: [CG-FX(with mark sensor)		
Command: MGL-IIc	_	
Step Size: 0.025mm		
CG Media Setup		
Decreases the curve speed (line speed is setups)		
Mimaki Fine Cut 5		
	Cancel	Setup

Click Setup .

Click Plot button in the FineCut menu.

Alternatively, select [Plot] from the [File]-[FineCut] menu.



Setting a frame.

Set a frame at 5 mm around the object. Check the [Frame] check box and enter value 5 as the frame space.

Sheet Size	⇔ 뢎 635 mm	\$ 婁 810 mm
Offset	⇔ 韋0 mm	\$ ⊕ 0 mm
Size	↔ 뢎 333.2 mm	\$
Scale(%)	⇔ 🗣100	- \$ - 100
Сору	↔ ‡ 1	\$ €1
Copy Margin	↔ 1 0 mm	10 mm
🔽 Frame	↔ 뢎 5 mm	\$ € 5 mm
	↔ 343.2 mm	\$ 125.53 mm

10

Click 7 Plot button.

Plot Out dialog appears.

Plotter Condition		
C Select Condition	CUT 1-Panel Setup 🗾 Edit	Cancel
C Custom	Tool Cut1 💌	
	▼ Speed ÷30 cm/s	
	V Press	Save As F
	M Onset	
Ontions		
I∕ Sort		
🔽 Sheet Feed		
	Cot	

Set the cut condition. (Refer to page 78)

Select "Plotter Condition" to use the preset cut conditions on the plotter.



Make sure to match the media conditions to the preset values on the plotter. If the entered values differ from the plotter settings, the object will not be cut normally.

Click Plot button to start plotting.

The origin point is set to the bottom right of the sheet. Therefore, the object cutting is performed from the bottom right (bottom left with Mimaki CF Series).



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Click 🖌 End button.

Plot dialog closes.

Enlarge and Reduce an Object

Enlarge or reduce an object. Move the mouse cursor to a corner of the object and then drag it.

1. Enlarge or reduce the object with a fixed aspect ratio.

Click [Unlock Scale] on the Option menu, and uncheck [Unlock Scale]. Enlarge or reduce the object as dragging a corner of the object.



 Enlarge or reduce the object only along horizontal or vertical direction. Click [Unlock Scale] on the Option menu. Enlarge or reduce the object as dragging the left or right corner or the top or bottom corner of the object.



ot					
() (?) (?) (?) (?)	ine (ut 5		(7	7	•
Preview Cut Line	5.0E	Initialize	Sheet Loading	Plot	End
	Ľ.∎	Sheet Size	⇔ 🗘 635 mm	\$ -810 mm	-
	<u> </u>	Offset	⇔ 韋0 mm	\$ 🗘 0 mm	
	Ó	Size	↔ 🛟 333.2 mm	\$ 🗘 283.1 mm	
		Scale(%)	⇔ 🛨 100	\$ 245.04	
	6	Сору	↔ ‡ 1	\$ 🜩 1	
	<u>0</u>	Copy Margin	↔ 🖆 10 mm	\$ \$ 10 mm	
		🔽 Frame	⇔ 🛟 8 mm	\$ 🐳 8 mm	
	5		↔ 349.2 mm	\$ 299.1 mm	
	Lay	out Tiling Re	gister Mark		
		10	5.1.2	EI 🔊	8
	i o	\mathbf{U}	+ + + + + + + + + + + + + + + + + + +	20 🖸	i
		Turn	Move	Fit Original	ayout
	3	Mirror	🔽 Center Mark	Unit: mm	-
11		Unlock Scale	Corner Mark		_
		Unidin Lease	‡ 3 mm		
		or Layer			
		🔲 🗾 C=100 M=	:0 Y=0 K=0		1
500] 500] 400] 300] 200] ⊕ ⊡ 🞝 20.00% 👻 ◀					7



- Drag the mouse as holding down the Shift key of the keyboard to enlarge or reduce the object with the aspect ratio retained.
- Change the horizontal and vertical sizes separately before invalidating Unlock Scale to enlarge or reduce the object with the new aspect ratio retained.

Enter the values of the Size and Scale on the Size Enter Box to enlarge or reduce the object more precisely.

Sheet Size	⇔ 뢎 635 mm	‡ <mark>‡</mark> 810 mm
Offset	⇔ 🗘 0 mm	\$ 🗘 0 mm
Size	↔ 뢎 333.2 mm	\$ 🚔 115.53 mm
Scale(%)	⇔ 륒100	- \$ 🛨 100
Сору	↔ ‡ 1	\$ €1
Copy Copy Margin	⇔ ‡ 1 ⇔ ‡ 10 mm	\$ € 1 \$ € 10 mm
Copy Copy Margin 🔽 Frame	⇔ 🔹 1 ⇔ 🔹 10 mm ⇔ 🔹 5 mm	

Mark the center and corners

Marking an object frame to align the position for affixing a cut seal.

Cut seal can be affixed by aligning the mark on the ruled lines as shown below.



- 1. Determine the center position of the seal affixing area and draw ruled lines.
- 2. Align the center mark with the ruled lines; Enables to affix to the expected position.



- 1. Draw ruled lines.
- Align the corner marks on the ruled lines or pre-drawn ruled lines; Enables to affix horizontally.

Mark the center.

Check [Center Mark] checkbox on the Options menu. Enter the marking size.



Mark the corners.

Check [Corner Mark] checkbox on the Options menu. Enter the marking size.



Cut an Object Multiple Times (Copy)

Use the copy function to cut an object multiple times vertically and horizontally, Use the copy function.

The following example shows how to cut ABC on the A3 size sheet.



Enter value 3 for horizontal and value 4 for vertical on the [Copy]. Set the margin between objects (horizontally and vertically) to 10 mm.



Plot					
N N O A fine (ut 5		=	7	€	
Preview Cut Line 5.08	Initialize	Sheet Loading	Plot	End	
	Sheet Size	↔ 🔹 705 mm	\$ \$ 630 mm	_	
18	Offset	⇔ 🗘 0 mm	\$ 🗘 0 mm		
le l	Size	↔ 🔹 189.22 mm	- \$ +65.44 mm		
7	Scale(%)	⇔ 🛨 100	- \$ - 100		
0	Сору	↔ 🐳 3	\$ \$4		
	Copy Margin				The total length
1600	I∕ Frame	↔ 🔁 10 mm	\$ 🔁 10 mm		indicates the size
		↔ 647.65 mm	‡ 371.76 mm		including the frame
5	Layout <u>Tiling</u> Re	egister Mark			including the frame
		512	ሕ 📕	`	size.
4		2+5 C	ŦŢ 🔥	5	
10	Turn	Move	Fit Origin	al Layout	
	Mirror	Center Mark	Unit: mm	-	
	Crigin Lock		_		
		To mm			
	Color Layer			\odot	
	C=100 M	=0 Y=0 K=0		<u> </u>	
600 500 400 300 200 100 0				-	
				///	1

Set the frame at 10 mm around the object.



When setting a frame, it is set for each object. Cannot enclose all the copied objects with a single frame.

Divide and cut an object (Tiling)

Use the tiling function to cut the object divided into pieces. This function enables to create a signboard greater than the sheet width. In this section, each divided object is called as "Tile". Divide an object.

1 Click [Tiling] tab.



2 | Set

Set the tiling pattern.

Layout Tiling Register Mark	<u>\</u>
Separation	
All Tiles ↔ ↔	3 mm 🗘 🜩 128.37 mm
🔿 Detail Size 🔲 Show	/ Size
Overlap 🚽 3 mm	Build Order 🖶 😫
Mark 🔤 10 mm	Tiles Space 🚑3 mm

- (1) All Tiles Enter the tile size. Divide into same tile size.
- (2) **Detail Size** Shift the division line of the cut area to define the tiling position.
- (3) Show Size Displays the size of each divided tile.
- (4) **Overlap** Set the tile overlapping margin.
- (5) Build Order Set the object cutting order. This cutting order is the order of affixing cut tiles to a sign board. Cutting order is displayed at the lower right of each object.

It determines the tile numbers and the overlapping direction. "Build Order" can be selected from

the following eight patterns:







The divided object is displayed.





Create Shadow/ Edge

Create a shadowed/edged object. FineCut enables the various shadowing/edging functions with ease operation.



Set the shadowing/edging details on the object.

3



Click OK after selecting a color or inputting the number.



Make sure to specify the RGB colors for the shadow/edge. If the document color mode is CMYK, it may not be able to display by the specified RGB colors. In the case, it is converted to the nearest CMYK colors.

4

Click OK to create a shadow or edge.



(Black/four-by-four Offset/Drop shadow)



If the multi anchor points are contained within the shadow or edge, execute Illustrator-[Object]-[Path]-[Simplify...].

To remove the created shadow or edge, click Remove the shadow/edge from the FineCut menu.





Note, in case editing the created shadow or edge on the Illustrator, it may not be able to delete.

Create a precut line [Weed Line]

Precut line around the object enables to cut the object with ease. In this section, the precut line is called as "Weed Line". Weed line function enables to create the precut line and frame.



The unit used in the Weed Line dialog refers to the Illustrator setting. If changing the unit, reset the unit in the Illustrator-[File]-[Preferences]-[Units & Undo].



Do not set a precut line (Weed Line) on a thick sheet. If performing precut line (Weed Line) cutting on a thick sheet, it may damage the work.



1. Free

1) Select [Interval]-[Free].

- 2) In the [Frame Offset], set the distance between the object and frame. (In the dialog below, the distance is set to 10 pt, vertically.)
- 3) Select the Weed line direction (Horizontal or Vertical) in the [Direction].
- 4) Click on the target position to create a Weed line.



2. Divide

1) Select [Interval]-[Distance].

Select or input the divide number to both horizontal and vertical directions.

2) In the [Frame Offset], set the distance between the object and frame. (In the dialog below, the distance is set to 10 pt, vertically.)



3. Distance

- Select [Interval]-[Distance].
 Select or input the distance in between the objects to both horizontal and vertical directions.
- 2) In the [Frame Offset], set the distance between the object and frame. (In the dialog below, the distance is set to 10 pt, vertically.)





4



Cut an Object by Color

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

The following example shows how to cut out the Cyan (C=100%) colored ABC.



The color list of the Plot dialog indicates the color configuration of the object. Uncheck the check box of the color set of object DEF. Object DEF disappears from the cutting area.



Color List

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



To keep the layout (Origin Lock)



Cut an Object by Layer

If the objects exist on multiple layers on Illustrator, you can cut out the object on the specified layer.

The following example shows how to cut out ABC on layer 1.



Change the Plot dialog to the layer list. Uncheck the Layer 2 check box.



Object DEF on the layer 2 disappears from the cutting area.

Check [Origin Lock] check box to cut out the object retaining the layout position of ABC. (Refer to page 33)
Set Cut Conditions



1

This function is effective only for the MGL-IIc commands.

FineCut enables to register up to 50 sets of cut conditions for the plotter.

When plotting, you can change the cut conditions depending on the media to be used.

Click Media Setup... button on the [Plotter/User Setup...] menu.

Alternatively, click Edit button in the Plot dialog. (Refer to page 78)

Plotter / User Setup

Plotter Communication Plot Dialog Alert Display		
Model: CG-FX(with mark sensor)		
CG Media Setup		
Mımakı Fine Cut 5	Cancel	Setup

2

The edit dialog appears.

utput Condition Setup						
Condition	Tool	Speed	Pressure	Offset		
CUT 1-Panel Setup	Cut1				<u>^</u>	Setun
CUT2-Panel Setup	Cut2	-	-	-		Dettep
CUT3-Panel Setup	Cut3	-	-	-		Cancel
Vinyl-chloride sheet	Cut 1	20	50	0.30		
Plain paper	Pen	40	60	-		Edit
						h bbΔ
						H00
						Delete
1					<u>v</u>	
🕞 Default Setup —						
Tool: Cut1			Sneed:		/<	
- Jobi Jobi	<u> </u>					
Press: 🌩	100 g		Offset: 🔷0.	3 mm		

1. Change the output condition.

Select the target tool and click or double-click on Edit button.

2.Add media.

Click Add button.

Check the parameters to set the values for the plotter and then enter the setup information.

Media / Tool Crea	ation	
Media Name: 🛛	CUT 1	
Tool:	Cut1 💌	
☑ Speed:	30 cm/s	
Pressure:	80 g	<u>_</u>
I Offset:	0.3 mm	<u>_</u>
	Cancel	OK

For the unchecked parameters, plotting is performed based on the plotter setting.

Click OK button to add the media to the list in the Output Condition Setup dialog.

Condition	Tool	Speed	Pressure	Offset		
CUT1	Cut 1	30	80	0.30	^	Setup
CUT2-Panel Setup	Cut2	-	-	-		
CUT3-Panel Setup	Cut3	-	-	-		Cancel
Vinyl-chloride sheet	Cut 1	20	50	0.30		
Plain paper	Pen	40	60	-		Edit
Media 1	Cut1	30	70	-		Add
						Delete
– Default Setup –						
Tool: Cut1	•		Speed: 🚑 30) cm/:	5	

Click Setup button.



5

3

4

In case any setting value exceeds the limit value on the plotter, plotting is performed based on the limit value of the plotter. For the limit values, refer to the Operating Manual.

Plot the data to cut.

6

Click Plot button in the FineCut menu.

Alternatively, select [Plot] from the [File]-[FineCut] menu.







(In case setting the output condition on each color or layer -> Refer to page 39)

Click 🝞 Plot button.

PlotOut dialog appears.

7

Check the [Select Condition] to select the output condition which has been set in the "Output Condition Setup" dialog. (Refer to page 36)

t Out			
C Plot			Plot
Select Condition	CUT1	Edit	Cancel
C Custom	Tool Cut1 Speed Press Offset	▼ ★30 cm/s ★80 g ★0.3 mm	Save As File
Options			_
🔽 Sort			
Sheet Feed			
🔽 Auto Cut	Set.		
🔽 Head Withdrawal Aft	er PlotSet.		

Click Edit to shift to the "Output Condition Setup" dialog to edit the output condition.

Specify the output condition in [Custom]. It enables to plot with the specified output condition without registering in the "Output Condition Setup" dialog.

Click Plot button.



8

In case, plot with "Select Condition" or "Custom" setting, the setting tempavaly reflect the value of speed/pressure/offset setting in Plotter. To restore the value back in previous setting value in plotter, Push the TOOL jog key when plotter in LOCAL mode.

<Set the output condition on each color/layer>

Output condition is settable on each color list or layer list. For a fine object or small characters, create an object on each color or layer, and set the appropriate output condition (lower cutting speed, etc.) for each to perform neat cutting operation.

Cut a red "B" as changing the output condition.



Display the following dialog. Click OK.

Mimaki Fine	2Cut
	In case specifyng the Output Conditions on each color or layer, the following items refer to the default values in the output condition setup dialog. Frame / Center Mark / Corner Mark / SpeedCPressureCOffset omitted value
E Do pot	OK
	uispiay uns message ir om me next time on.



In case setting the plot condition on each color/layer, the set value on the plotter cannot be used. Make sure to check the all condition (Speed/Pressure/ Offset) in the check box.

Media / Tool Cre	ation		
Media Name:	CUT 1		
Tool:	Cut 1	-	
Speed:	30	cm/s	<u> </u>
🔽 Pressure:	80	g	<u> </u>
🔽 Offset:	0.3	mm	<u>_</u>
	Car	ncel	ОК

In case no check box is checked, plot operation is performed by the default setting value.

Condition	Tool	Speed	Pressure	Offset		
CUT1	Cut1	30	80	0.30	<u>^</u>	Seti
CUT2-Panel Setup	Cut2	-	-	-	L	
CUT3-Panel Setup	Cut3	-	-	-		Cano
Vinyl-chloride sheet	Cut 1	20	50	0.30		
Plain paper	Pen	40	60	-		Edit
Media 1	Cut 1	30	70	-		Add
						Dele
					-	
– Default Setup –						
Teel. Cut1			Counds Indoo			
ruu: jouri	<u> </u>		sheen: 🖃 sh	un/s	·	
			and a local sector			

When specifying a frame, center mark, corner mark, the plot operation is performed by the default setting value as well.

The set output condition is displayed on the right side.

Click on the right button 🔽 to set the color list output condition of "B" to the "CUT3" output condition.

Color Layer	
	Condition
🔽 📃 🜌 C=100 M=0 Y=0 K=0	CUT 1-Panel Setup
🔽 📕 🗾 PANTONE 186 U	🗸 CUT1-Panel Setup 🛛 🔽
	CUT2-Panel Setup
	CUT3-Panel Setup
	Vinyl-chloride sheet 😽
	Plain paper
	-
l	

5 When changing the output condition, click on the upper right button to select the [Edit Plot Condition...].



When selecting [Specify The Plot Condition On Each Color] or [Specify The Tool On Each Color], the preset output condition is displayed. All lists settings refer to the selected output condition here.

6 Click 🕏 Plot button to display Plot Out dialog.

lot Out		
Plot		Plot
C Select Condition	Edit	Cancel
C Custom	Tool Image: Constraint of the second secon	Save As File
Options		
Auto Cut Head Withdrawal After	r Plot Set	
Sheet Feed Auto Cut Head Withdrawal After	set	

Click Plot .

Set Head Withdraw Position and Origin

You can set up the head position after plot.

Set the head position/origin as automatically renew the origin after plot operation to prevent from cutting on the same position with the previous cut.

Click 큣 Plot button in Plot dialog to display the Plot Out dialog.



2

1

Check [Head Withdrawal After Plot] check box.

 Plotter Condition 		Plot
Select Condition	CUT 1-Panel Setup 🗾 Edit	Cancel
 Custom 	Tool Cut1	
	Speed 30 cm/s	
	Press 100 g	Save As File
	♥ Offset 🚽 0.3 mm	
Ontions		
Sort		
🔽 Sheet Feed		

When changing the head withdrawal position or set the origin to the withdrawal position, click Set button to display the [Head Withdrawal Position] dialog.

(On the default condition, the withdrawal position is set to the maximum data cutting length +1 cm without [Sheet Feed Origin Renewal].)



(1)Set the head withdrawal position for the horizontal direction.

Reference position selectable from either [Current Origin] or [Max Cut Length]. For example, the head is withdrawn to the position at 0 cm from Current Origin for the horizontal direction in the figure above.

(2)Set the head withdrawal position for the length direction.

Reference position selectable from either [Current Origin] or [Max Cut Length]. For example, the head is withdrawn to the position at +1 cm from the Max Cut Length along the length direction in the figure above.

(3)Set the head withdrawal position as the origin position.

(This function is effective only for the MGL-IIc commands on Mimaki CG series.) Check this option for the useful operations like continuous output.



4

3

When checking "Sheet Feed Origin Renewal", [No. Copies] or [Division Cut] function on the plotter will not perform normally. Uncheck "Sheet Feed Origin Renewal" before using [No. Copies] or [Division Cut] function.

Click Setup to return to the Plot Out dialog in step 2.

Click Plot button to perform plotting.

The plotter head will move to the specified position after plotting the data.

Make a Seal

The following example shows how to cut the outline of a printed pattern to make a seal or sticker.

FineCut provides you the [Frame Extraction] function that enables to generate outlines on an object, the Register Mark Recognition function that enables to perform axial correction, and distance correction at once using Mimaki CG-EX series and Mimaki CG-FX series cutting plotter with a mark sensor.



If the entered values differ from the settings on the plotter, the object will not be output normally. (Refer to page 68)

1. Attaching a Frame

This function enables to make outlines automatically.





2

Click Frame Extraction button in the FineCut menu.

Alternatively, select [Frame Extraction...] from the [File]-[FineCut] menu.

Mir	maki F	ineCu	ut 🔪			
Ī	NØ	ß	Ð	S	ר ר ר	
Ð		A	Ŕ	H ₂	e (u	t 5

Make path setting for the frame.



2. Create a Register Mark

1

2

Point the position to create a register mark. Enclose the object with the rectangle tool.



Click Register Mark Creation button in the FineCut menu. Alternatively, select [Register Mark Creation] from the [File]-[FineCut] menu.

Mimaki F	ineCut	
Ī NĪ		
		Lut 5

3

Set the shape and size of the register mark.





When cutting register marks continuously, set the register mark size to 8 mm.

The register mark is created. Output to the printer.





Make sure to uncheck the [FC Frame Layer] before outputting a data. In case outputting a data which has been created as checking [Frame Extraction] or [Leave a rectangle as the cutting line].

			0	<u> </u>
			0	
				-
0	+1	3	E.	/
	Ð	֎ ⊶⊒	e) +a .∎	e -a a 3

3-1. Recognize and cut Register Mark (in use of CG-EX series)

1

Set the output result on the plotter to perform register mark detection.

For the procedure of register mark detection, refer to the Mimaki CG-EX series operation manual.



Click Detect Mark button in the Plot dialog to identify the register mark.



Click Exit Detection button to cancel register mark recognition.

Click \bigcirc Plot button to display the Plot Out dialog.

Plotter Condition		
C Select Condition	CUT 1-Panel Setup 🗾 Edit	. Cancel
C Custom	Tool Cut1 🖃	
	Speed 30 cm/s	
	Press	Save As File.
	▼ Offset 🚽 0.3 mm	
Options		
☑ Sort		
Sheet Feed		
E 1.1. C.1	Cat	

4

Click Plot button.

3-2. Recognize and cut a Register Mark (in use of CG-FX series)

FineCut enables to detect the register mark set on the CG-FX at high speed. Perform two cutting patterns : continuous multiple same data cutting on a roll sheet, and continuous multiple same data cutting as exchanging a leaf sheet.

< Cut on a roll sheet continuously >



- Only one set of the register marked data (4 register marks) is available to cut continuously. In case two or more sets of the register marked data exists in a sheet, cannot cut continuously.
- Standardize a shape of the register mark. In case a different shape of the register mark mixed, cannot detect the register mark precisely.
- Set the same size and position between the output leaf sheet size and the print position.

1

Set the output result on a plotter to perform register mark detection.

For the procedure of register mark detection, refer to the Mimaki CG-FX series operation manual.



_ Detection of register mark (Semi-automatic mode)

- Enable "MARK DETECT" function on the plotter. Set the register mark information: size, shape, and so on. Select "1 pt" as detecting mark number.
- 2. Place the sheet on the plotter turn the sheet set lever toward you.
- 3. Press Jog key to detect the placed sheet.
- 4. Move the spot LED into the area illustrated on the left figure.
- 5. Press $\boxed{\text{ENTER}}_{\text{HOLD}}$ key.
- 6. Return to LOCAL mode after detecting the register mark.

Click Detect Mark button in the Plot dialog.



3

Set the register mark to recognize continuously.

Ì		ister Mark		
	Exit Detection			
	Repeat	⇔ ▲ 4	‡ ‡ 3	
	Search	First Time Contunue		

Select "Roll Sheet" (left) icon.

Set the continuous numbers to each direction, vertical and horizontal.

In case the continuous number is indeterminacy, input the maximum numbers, "9999".

Select the first detect points of the register mark.

Select the second and the subsequent detect points of the register mark.



When detecting a larger data, set more detect points to cut more precisely. When detecting a smaller data, set less detect points on the second and the subsequent detect points to reduce the detecting time.

Click Exit Detection button to cancel register mark recognition.

Click 💎 Plot button.

Plot Out dialog appears. (Refer to page 78)

C Plotter Condition				Plot
C Select Condition		v	Edit	Cancel
C Custom	Tool	~		
	E Speed	€ O pt	cm/s	
	Press	≑0 pt	g	Save As File
		€ U pt		
Options				
Sort				
Sheet Feed				
🖉 Auto Cut	Set.			

Check [Auto Cut] to enable sheet cut automatically after completing each cutting operation. Click Set to set the Auto Cut Setup information.

5

Make sure to check the check box before performing auto cut. Even if setting to ON the CG-FX, no cut operation is performed until check box is checked. Setting on the check box prior to setting on the CG-FX.

Auto Cut Setup		
Max Cut Length +	±10 mm	Set the maximum length from the last line to the cutting point. (See the figure A below).
Cancel	Setup	
	Q	<pre>Cut</pre>
Click OK.		
Click Plot	in the Plot (Out dialog to start plotting

• In case the printed data by a take-up functioned plotter (Mimaki JV series etc.) rolled as a paper tube

Rotate the data to 180-degree in the FineCut, and set the paper tube on the CG-FX directly: Enables to cut the data continuously. (No need for rewinding the roll)



Rotate the data to 180-degree before recognizing a register mark in the FineCut.





• In case the continuous printed data exist to the middle of the line

Perform cutting in twice to cut all the data.



< Cutting Leaf sheet continuously >



- Only one set of the register marked data (4 register marks) is available to cut continuously. In case two or more sets of the register marked data exists in a sheet, cannot cut continuously.
- Set the same size and position between the output leaf sheet size and the print position.

1

Set a output result on a plotter to detect register marks.

(Refer to page 51)

For the procedure of register mark detection, refer to Mimaki CG-FX series operation manual.

2

Click Detect Mark button in the Plot dialog.



3

Set the register mark to recognize continuously.



Click Exit Detection button to cancel register mark recognition.

5

Click (Plot button.

Plot Out dialog appears. (Refer to page 78)

ot Out			
Plot Plotter Condition			Plot
C Select Condition	CUT 1-Panel Setup	Edit	Cancel
C Custom	Tool Cut1		
	I Speed I Press I Offset		Save As File
Options			
Sort			
Sheet Feed		_	
Auto Cut	Set		
🔽 Head Withdrawal Aft	er Plot Set	1	
		-	

- Click Plot button to start plotting.
- 6 The following message appears on the "CG-FX series" plotter panel after cutting the first sheet.



7 Set the next sheet. Detects the register mark automatically and performs cutting.



Make an effective use of sheets

Move the object to avoid waste of sheet.

The following is an example. If B is a different color from A and C, B becomes blank because of the different color. Move the object to the blank part to perform cutting.

Plot					
() () () ()	fime (ut 5		(7	7	
Preview Cut Line	5.0E	Initialize	Sheet Loading	Plot	End
		Sheet Size	⇔ 🛓 187 mm	\$ \$249 mm	_
		Offset	↔ 🗘 0 mm	\$ \$ 0 mm	-
	5	Size	↔ 📫 124.36 mm	- \$ - \$43.13 mm	
		Scale(%)	⇔ 🔹 100	- \$ - 100	
		Сору	⇔ ‡1	\$ 🗣 1	
		Copy Margin	⇔ 🛖 10 mm	‡ ‡ 10 mm	
	-	🔽 Frame	⇔ 🔹 3 mm	\$ € 3 mm	
			↔ 130.36 mm	\$ 49.13 mm	
	1	Layout Tiling Re	gister Mark		
	0			-	
			***	한 🖯	
		Turn	Move	Fit Origina	Layout
	· · ·	Mirror	Center Mark	Unit: mm	-
		Unlock Scale	Corner Mark		_
		Crigin Lock	≜8 mm		
	5				
	0	Color Layer			
		C=100 M	0 Y=0 K=0		-
			186 U		
					_
100 50	······································				
101.48% 💌 💶		1			~
L					

1

Select an object to move using the direct selection tool.

Plot					
(()	fime (ut 5		(7	7	€
Preview Cut Line	5.0E	Initialize	Sheet Loading	Plot	End
		Sheet Size	↔ 🔹 187 mm	\$ 249 mm	
	1	Offset	⇔ 🗘 0 mm	‡ ⊕ 0 mm	
	Ś	Size	↔ 뢎 124.36 mm	— \$ 🗘 43.13 mm	
	- 21	Scale(%)	↔ 🔹 100	- \$ 100	
		Сору	↔ 👤 1	\$ 🚔 1	
		Copy Margin	↔ 🚔 10 mm	\$ € 10 mm	
	- 64	🔽 Frame	↔ 🔹 3 mm	\$ 🗘 3 mm	
	- 23 3		↔ 130.36 mm	\$ 49.13 mm	
	1	Layout Tiling Re	gister Mark		
	<u>ŏ</u> :	Ð	×+2 +++	Ð 🗧	
		Turn	Move	Fit Origina	al Layout
		🗖 Mirror	🔲 Center Mark	Unit: mm	•
	-	Unlock Scale Origin Lock	Corner Mark	_	
		1 Origin LOCK	₿ mm		
	-5	Color Laver			•
		🔽 📃 🗷 C=100 M	=0 Y=0 K=0		A
		E Z PANTONE	186 U		_
- k3					
100 50 50					-

Drag the selected object to the desired position.



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

Trapping

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



Click OK after setting.



Identify the Stroke Weight and Overlap

Identify the stroke weight and overlap of objects to cut it as a figure as displayed on the monitor.



Fill and Stroke of an Object

In the figure below, the fill of the ellipse is set and stroke are made thicker. Cutting is performed not by the outline of stroke but the outline of fill.



In case an object is not filled with a color, the stroke path is cut.

In this case, stroke path is cut regardless of the thickness. Check the path when selecting the object or in the Artwork mode (Outline mode) of Illustrator.



Path

A path refers to a line which is created using the drawing tool of Illustrator. The outline of a graphic object also consists of a path. The outline of a straight line or rectangle created by Illustrator is also a typical example of a path.



Refer to "Recognize Stroke Weight And Overlap" to cut an object with the stroke weight recognized or with stroke and fill separated. (page 62)

FineCut Menus

The following procedure describes on the FineCut menu. There are two ways to select the menu.



Select [Show FineCut menu] from the [Window] menu of Illustrator. The following display appears.

			Ξ×
Mimaki F	ineCut 🔿		
₽ N ₽	RD	6.5	〓
	A A	fine (u	5



Select [FineCut] from the [File] menu.

Adobe Illustrator	
ile Edit Object Type Select Filter I	Effect View Window Help
New Ctrl+N	
New from Template Shift+Ctrl+N	
Open Ctrl+O	
Open Recent Files	_
Close Ctrl+W	
Save Ctrl+S	
Save As Shift+Ctrl+S	
Save a Copy Alt+Ctrl+S	
Save as Template	
Save for Web Alt+Shift+Ctrl+S	
Save a Version	
Revert F12	_
Place	
Save for Microsoft Office	-
Export	
Fin-Cut	
FineCut	Plot Alt+Cri+F
51 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	FIOL DEIECCEG FACILITY
ouripus 🕨	
Document Setup Alt+Ctrl+P	Plotter / User Setup
Document Setup Alt+Ctrl+P Document Color Mode	Plotter / User Setup Recognize Stroke Weight And Overlap
Document Setup Alt+Ctrl+P Document Color Mode	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping
Document Setup Alt+Ctrl+P Document Color Mode File Info Versions	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping Frame Extraction
Suripus Alt+Ctrl+P Document Setup Alt+Ctrl+P Document Color Mode + File Info Versions Print Ctrl+P	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping Frame Extraction Register Mark Creation
Document Setup Alt+Ctrl+P Document Color Mode Hile Info Versions Print Ctrl+P Exit Ctrl+Q	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping Frame Extraction Register Mark Creation Make Weed Line
Document Setup Alt+Ctrl+P Document Color Mode + File Info Versions Print Ctrl+P Exit Ctrl+Q	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping Frame Extraction Register Mark Creation Make Weed Line Bermove Weed Line
Document Setup Alt+Ctrl+P Document Color Mode + File Info Versions Print Ctrl+P Exit Ctrl+Q	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping Frame Extraction Register Mark Creation Make Weed Line Remove Weed Line
Document Setup Alt+Ctrl+P Document Color Mode + File Info Versions Print Ctrl+P Exit Ctrl+Q	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping Frame Extraction Register Mark Creation Make Weed Line Remove Weed Line Make Shadow / Edge
Document Setup Alt+Ctrl+P Document Color Mode File Info Versions Print Ctrl+P Exit Ctrl+Q	Plotter / User Setup Recognize Stroke Weight And Overlap Trapping Frame Extraction Register Mark Creation Make Weed Line Remove Weed Line Make Shadow / Edge Remove Shadow / Edge

P lot :	Displays the cutting area and sets the object lay- out and various options. It also sends an object to the plotter for object cutting.
Plot Selected Path :	Plots only the selected object.
Plotter/User Setup:	Sets the communication conditions with the plot- ter used. (Refer to page 66)
Recognize Stroke Weight And Overla	ap :
	Recognizes the stroke weight and overlap of the selected object. (Refer to page 62)
Trapping :	Traps the selected object. (Refer to page 60)
Frame Extraction :	Creates a frame for the selected object. (Refer to page 44)
Register Mark Creation :	Creates a register mark to be recognized by the plotter. (Refer to page 46)
Create Weed Line :	Creates a Weed Line as the precut line around the object. (Refer to page 29)
Remove Weed Line :	Remove the created Weed Line. (Refer to page 31)
A Create Shadow / Edge :	Create a Shadow /Edge on the object. (Refer to page 26)
Remove Shadow / Edge :	Remove the created Shadow /Edge on the object. (Refer to page 28)
Output Plot File :	Output the saved plot command file to a plotter. (Refer to page 80)

Plotter/User Setup

Set the communication conditions to enable communication between FineCut and the plotter.



If the entry value differs from the setting on the plotter, the object is not output normally.

Click E Plotter/User Setup button in the FineCut menu.

Alternatively, select [Plotter/User Setup...] from the [File]-[FineCut] menu.

Plotter / User Setup
Plotter Communication Plot Dialog Alert Display
Model: CF
Command: MGL-IIc
Step Size: 0.025mm
CF Media Setup

1) Plotter

Set up the plotter connected. Refer to the operation manual of the plotter for details.

Model:	Select the plotter model connected.		
Command:	Select the command set by the plotter.		
Step Size:	Select the step size set by the plotter.		
**Media Setup:	Click this button to display the Output Condition Setup dialog . (Refer to page 67)		
Decreases the curve speed:	This function is effective only on the Mimaki CF series cutting plotter. When checked, the cutting speed goes down at a curve to ensure smooth cutting.		

Output Condition Setup						
Condition	Tool	Speed	Pressure	Offset		
CUT 1-Panel Setup	Cut1				<u> </u>	Setup
CUT2-Panel Setup	Cut2	-	-	-	Ľ	Daridp
CUT3-Panel Setup	Cut3	-	-	-		Cancel
Vinyl-chloride sheet	Cut1	20	50	0.30		
Plain paper	Pen	40	60	-		Edit
						Add
						Delete
I - Default Setup						
Teel Cutt						
	•		Speed: 🖽 30	cm/s	•	
Press: 🌲	100 g		Offset: 🗐0.	3 mm		
L						

<Output Condition Setup>

Click Media Setup button in the "Plotter" setup dialog to display the Output Condition Setup. (Refer to page 66)

Condition :

Displays the registered output condition (Speed/Pressure/Offset). When changing the setting, select the target condition, and then click Edit . (Refer to page 36) For adding the output condition, click Add . (Refer to page 36)

Media / Tool Creation			
Media Name: 🛛	JT 1		
Tool: Cu	it1 💌		
🔽 Speed:	30 cm/s	<u></u>	
✓ Pressure:	80 g	<u></u>	
🔽 Offset:	0.3 mm	<u>_</u>	
	Cancel	OK	

Default Setup :

If setting the output condition for each color or layer, set the output condition for a frame and mark as the default setup.

lotter / User Setup	alog (Alert Display	λ
Port: @ Serial @ USB	COM1	×
Baud Rati Data Lengt Parit	2: 9600bps h: 8bits /: None	
Handshak	: Hardwire	
Mımakı Fine (it 5	Cancel Setup

2) Communication

Select communication conditions for the interface.

Port :	Select a port connected to the plotter.		
	* When in use of Mimaki CG-FX series, USB connec-		
	tion is available (in case connected to a plotter and the		
	power is ON). Select [USB], and click on the right side of pop-up menu to confirm "CG-FX-xx".		
Baud Rate :	Select the transfer rate. (Serial)		
Data Length :	Select the number of data bits. (Serial)		
Parity :	Select the parity check method. (Serial)		
Handshake :	Select the handshake method. (Serial)		

Plotter / User Setup	
Plotter Communication Plot Dialog Alert Display	
Default Sheet Size ↔ 🐳 1.3 m 🗘 🐳 2	m
Display Type	
Fit In Sheet Size	
 Fit In Sheet Width 	
C Fit In Objects Size	
 Loading Sheet When Dialog Displays Plot Only Viewable Paths 	
Mımakı fine (ut 5	Cancel Setup

3) Plot Dialog

Default Sheet Size :	When FineCut displays the Plot dialog, it loads the sheet size from the plotter. If this load operation is not performed normally, the preview size refers to the default sheet size set on this dialog.
Display Type :	Select the display type for displaying the Plot dialog.
Loading Sheet When Dialog Displays :	When this option is checked, it loads the sheet size when the plot dialog is displayed.
Plot Only Viewable Paths :	When this option is checked, plot only view- able paths.

Plotter / User Setup	
Plotter Communication Plot Dialog Alert Display	
🔽 Open Path	
Stroke Weight Specified	
🔽 Other Path That Cannot Be Plot	
🔽 Register Mark Recognition	
Output Condition Setup on each color/layer	
Mimaki fine (ut 5	Cancel Setup

4) Alert Display

Check this option to display the following warnings.

Open Path :	The path is not closed. (The start and stop points are not set to the same point.)	
Stroke Weight Specified :	There is a path that the stroke weight is speci- fied.	
Other Path That Cannot Be Plot :	The object may be drawn with the Gradient Mesh tool, brush tool, or other tools of Illus- trator. The object may be masked or is a ras- ter image.	
Register Mark Recognition :	Two-point correction is performed at the time of register mark recognition.	
Output Condition Setup on each color/layer :		
	The set output conditions are different on	

The set output conditions are different on each color or layer.
Plot Dialog

The following describes the Plot dialog.



(1) Tool Box

k	Selection Tool:	Move or resize an entire object displayed currently. Shift the division line to tiling.
8	Direct Select Tool:	You can select part of an object and move it. It enables you to move an object to a blank position on the sheet for an effective use of the sheet. (Refer to page 58)
	Move Preview Area Tool:	Change the object display area.
9	Zoom Tool:	Enlarge or reduce a window. Click in the cut area to get the larger view. To get the smaller view, click in the cut area as pushing down the <u>Alt</u> key (Windows) or <u>Option</u> key (Macintosh).

(2) Screen Display Mode

Enable to change the display mode. Objects are displayed in color in preview mode and as paths in artwork mode.

Preview Mode :Preview the color display.Cutline Mode :Display the object with the path (outline).
It enables to confirm a white object and cutting-line with ease.

(3) Layout Area

The white portion is the effective cutting area loaded from the sheet. In this area, the sheet width is displayed along the horizontal axis and the sheet length along the vertical axis. If the object overflows from the cutting area, the \bigwedge mark appears to the left of \bigtriangledown Plot button. Click the \bigwedge mark to display the contents of the error.

(4) Zoom Size

The Current zoom size is displayed.

· ‡∙	Fill In Sheet Size :	Displays the entire sheet.
- +	Fill In Sheet Width :	Displays the sheet width.
4	Fill In Objects Size :	Displays the enlarged object to fill the screen.
100.0	0% 💌 %:	Enable to change display size to select or enter percentage value.

(5) Button

Initialize :	Reserve the original layout as selecting with direct selection tool.	
Sheet Loading :	Loads the sheet size set to the plotter. When the mark is displayed to the left of Sheet Loading button, the sheet size of the plotter cannot be loaded. Set the plotter to the REMOTE mode as clicking Sheet Loading button to load the sheet size	
Plot :	Display "Plot Out" dialog. (Refer to page 78) When the <u>mark</u> is displayed to the left of <u>Plot</u> button, the object overflows from the cutting area. Move the object to fit it into the cutting area.	
End :	Closes the Plot dialog.	

(5) Size input area

Sheet Size	⇔ ‡ 635 mm	\$ 륒 810 mm
Offset	⇔ 争0 mm	‡ ‡ 0 mm
Size	↔ 뢎333.2 mm	- \$ 📮 1 1 5.53 mm
Scale(%)	⇔ ᆍ100	- \$ - 100
Сору	⇔ ‡ 1	\$ 1
Copy Margin	⇔ ‡ 10 mm	‡ ≢ 10 mm
🔽 Frame	⇔ 륒5 mm	\$ 륒 5 mm
	↔ 343.2 mm	\$ 125.53 mm

Sheet Size

Displays the cutting area based on the size of the sheet set in the plotter.

Click on the sheet loading button to display the loaded sheet size. Alternatively, input the sheet size (width and length of the cutting area).

Offset

The origin is set at the bottom right corner (Mimaki CG series) or the bottom left corner (Mimaki CF series) of the layout area. The default origin is positioned at 0 mm (both vertically and horizontally) of the layout area. Change the value of the origin to move the object.



Size

Enable to change the vertical and horizontal lengths of an object.

When the values of the vertical and horizontal lengths are interlocked (the - mark is supplied to the bottom of Size), the aspect ratio is retained. Check the [Unlock Scale] check box to change the vertical and horizontal lengths separately.

Scale (Refer to page 16)

Set the magnification of the vertical and horizontal lengths. When the value of vertical and horizontal lengths are interlocked (the - mark is supplied to the bottom of Size), the aspect ratio is retained. Check the [Unlock Scale] check box to change the vertical and horizontal lengths separately.

Copy (Refer to page 20) Enter the number of copies along the vertical and horizontal directions.

Copy Margin (Refer to page 20)

Set the margin between objects along the vertical and horizontal directions.

Frame

Cut a frame around the target object. In addition, settable the distance between the object and the frame. It enables to peel the purpose portion of the cutting sheet easily. Marking the center and corners to align easily for affixing a cut seal. (Refer to page 18)

Total Length

Usually the width and the height of an object are displayed. When entering the number copies for the copy function, the total lengths along the vertical and horizontal directions for all the copies are displayed. If margins and frames are set, the length values of them are included.

(7) Layout Option

Г	Layout Tiling Register Mark				
	\mathbf{O}	K + X + • + K + X	÷	3	
	Turn	Move	Fit	Original Layout	
	 Mirror Unlock Scale Origin Lock 	Center Mar Corner Ma	rk (Jnit: mm 💌	
•	Turn :	Rotates th	e object	clockwise in u	nit of 90 degrees.
⊼ ↑ + • ⊻ ↓	Move :	Click on t get positio	he desire on.	d direction of a	arrow to move the object to the tar-
ţ	Fit :	Fit the ob	ject to th	e detected shee	t width.
A	Original La	yout : F	Reserve t	he original lay	out by the direct selection tool.
		(Refer to	page 59)	

Mirror

Inverts the object in mirror image to cut it.



Unlock Scale (Refer to page 16)

The size of the object can be changed with variable aspect ratio.

Origin Lock (Refer to page 33)

Lock the origin to retain the object position. Unlock the origin to cut an object with the selected color (or layer) without wasting sheets.

Center Mark (Refer to page 18)

When setting a frame, puts a mark in the center of the frame in every direction. Use the mark to put the cut seal on the desired position.

Corner Mark (Refer to page 19)

When setting a frame, puts marks on all corners of the frame. Use the mark to put the cut seal in a horizontal position.

Unit

Set the display unit in the plot dialog. Set the unit any of cm, mm, inch, or pt.

(8)Tiling (Refer to page 23)

La	Layout Tiling Register Mark					
	Separa	tion				
	 All Tiles 	↔ + 224	.58 mm 🗘 🜩 128.37 mm			
	🔿 Detail S	ize 🔲 Sho	ow Size			
	Overlap	‡ 3 mm	Build Order			
	🗌 Mark	.▲ ▼10 mm	Tiles Space 🚔 3 mm			

Separation

After dividing an object, click this button to separate the divided block.

All Tiles

Enter the tile size here. Divide the object into the same size.

Detail Size

Click here to operate tiling optionally.

Shift the division line using (the selection tool. (Refer to page 71)

Show Size

Click here to display the each tile size.

Over lap Set the tile overlapping margin.

Build Order

Select the order to glue together the cut objects.

Mark

Mark the divided object. Match the marks to build up the object.

Tiles Space

Set the tile cutting interval.



(9) Detect Mark

Detect Mark Button

This function is effective only when in use of CG (with register mark detection) plotter model. By performing register mark detection using Mimaki CG-EX series and Mimaki CG-FX series cutting plotter with mark sensor, automatic size correction is performed for the read register mark.

Exit Detection Button

Cancel a register mark recognition.

When in use of Mimaki CG-FX series, detect procedure is settable according to the sheet type: roll sheet or leaf sheet. (Refer to page 52)

Layout Tiling Register Mark				
Exit Detection		D		
Repeat	⇔ 📥 4	‡ <mark>≜</mark> 3		
Search	First Time Contunue	L L J L r 7 7 7 7 7 7 7 L 7 7 7 7 7 7		

Repeat

Roll sheet : Set the continuous numbers to each direction, vertical and horizontal. Leaf sheet : Set the numbers of repeating sheets.

Search

First Time : Select the first detect points of the register mark.

Continue : Select the second and the subsequent detect points of the register mark.

(10) Selection List (Refer to page 32)

Select color-based or layer-based object cutting pattern. The selected option is displayed in the bottom list. Execute the tiling function to display the tile list.

Only the checked objects are cut. In the color list, select the fill color and stroke color to display each object information.

Click on the button on the upper right to specify the output condition. (Refer to page 40)



(11) Resize

When changing the dialog size, drag the dialog to a desired size while holding down the mouse button.

Plot Out Dialog

When clicking (\mathbf{r}) Plot button, the Plot Out dialog appears.

Out			
– Plot – C Plotter Condition			Plot
 Select Condition 	CUT1	▼ Edit	Cancel
C Custom	Tool Cut1 Speed Press Offset	▼ \$30 cm/s \$80 g \$0.3 mm	Save As File
Options			7
Sheet Feed			
🔽 Auto Cut	Set		
🔽 Head Withdrawal Af	ter Plot Set	.	

1) Media

Select the output condition.

Plotter Condition :		Plots by the output condition on the plotter.	
Select Condition :		Plots by the output condition on the FineCut.	
		Click Edit button to add media, or set cutting conditions by media	
		types. (Refer to page 35,67)	
Custom :		Enables to specify the output condition without registering the conditions.	
	Note, if changi	ng the output condition on each color or layer, output condition	
cannot be edited in the dialog.		ed in the dialog.	

(2) Option

CAUTION

Sort

Mimaki CG series performs sorting for efficient cutting with minimum useless head movement. Mimaki CF series performs sorting for cutting from an object of the shortest circumferential length.

Sheet Feed (MGL-IIc for Mimaki CG series only)

Before cutting, confirm the performance as feeding the sheet to check whether the entire data can be cut.



If plotting fails, an error is displayed on the plotter. Stop plotting, reset the sheet, then restart plotting.

Auto Cut

When in use of Mimaki CG-FX series, the function is effective.

When performing continuous cutting on a roll sheet, cut off the sheet automatically after completing the performance.

Click Set button to set the following information. (Refer to page 53)

Auto Cut Setup	
Max Cut Length +	≑ 10 mm
🔽 Detail Cutting	
Cancel	Setup

Max Cut Length +

Set the maximum length from the last plotted line to the cutting point.

Detail cutting

Check the box to cut a data at every line.

Head Withdrawal After Plot

After data output, the head moves to make it easier to check data. Click Set button to set the following information. (Refer to page 43)



Head withdrawal position for the horizontal direction

Set the head withdrawal position for the horizontal direction.

Reference position selectable from either [Current Origin] or [Max Cut Length].

Head withdrawal position for the length direction

Set the head withdrawal position for the length direction.

Reference position selectable from either [Current Origin] or [Max Cut Length].

Head withdrawal position as the origin position

Set the head withdrawal position for the length direction.



Origin Update is effective only with MGL-IIc for Mimaki CG series.

3) SaveAs File

Select Save As File to save the plot data as a plot file.

Select the folder, and then click Save to save the file.

The saved plot file is able to output from [FineCut] in the [file] menu and select [Output Plot File].



Select the file, and then click Open to plot start.

Cannot change the sheet size

- When the MGL-IIc commands are used, the sheet size remains unchanged even if shifting the origin on the plotter and click E Sheet Loading button. In this case, the sheet size set in the plotter is always displayed. Even if the data fits into the cutting area in the layout area, the data may cut overflowed.
- When the MGL-Ic commands are used, the effective cutting area is displayed. Therefore, even if shifting the origin on the plotter side, it can be cut normally so long as the data fits into the cutting area.

Memory runs out during stroke weight and overlap recognition and frame extraction

Stroke weight and overlap recognition and frame extraction require a large mount of memory for the complicated objects. Depending on the specifications of the machine, the target object may not be processed because of insufficient memory. In this case, depending on the object type, you may avoid insufficient memory error by splitting the object into several pieces and executing the processing multiple times, instead of selecting the entire object and executing the process at one time.

- Example 1: Select each component and execute the processing separately to recognize the stroke weight and overlap for a complicated object with a separate title, instead of selecting the entire object. In case any overlaid portion exists, select only overlaid portion to execute the process.
- Example 2: Select only outer frame to perform frame extraction to extract the frame a complicated object with an outer frame. It enables to process without wasting memory rapidly.

A communication port error occurs when plotting

The following error message appears as clicking $(rac{1}{r})$ Plot button during FineCut in use.

Adobe Illustrator
The communication port has already been used by other application or driver. Terminate the application or driver which uses the communication port.
OK]

- On the Windows version, a communication port error occurs if using a driver software for the tablet or other peripheral devices which occupies the serial port. This error can be canceled by using other serial port or temporarily deactivating the driver software of the peripheral device, etc.
- On the Macintosh, the plotter-command port may have already been used by AppleTalk. In this case, disable AppleTalk from the selector. Alternatively, select a plotter-unconnected port, from the AppleTalk control panel document. When the plotter is connected to the printer port, select the modem port or Ethernet.

	AppleTalk	
Connect via:	 Ethernet Modem Port Printer Port 	
Current zone :	Remote Only < no zones available >	
2		

Inferior plotting when executing [Frame Extraction],[Create Weed Line], or [Create Shadow/Edge] on the wrap-around text which created by the wrap-around text

If executing [Frame Extraction],[Create Weed Line], or [Create Shadow/Edge] on the wrap-around text which created by the IllustratorCS -[Object]-[Text Wrap]-[Make Text Wrap], it results in inferior plotting. Make sure to create out-line text by the [Type]-[Create Outlines] to obtain the good result.

Invalid path created in the object when creating edge

Depends on the shape of the path, invalid path may be created in the created edge. In the case, set the smaller offset value for creating edge, or change the shape of the angle.

Cannot delete the shadow or edge created in [Create Shadow/Edge]

If editing a shadowed or edged path created in [Create Shadow/Edge], it may not be able to delete even if executing [Remove Shadow/Edge]. In the case, execute [group] of the shadowed/edged path, and then manually delete the shadow/edge.



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