CJV200, CJV300 Plus, CJV330, UCJV300/150, UCJV330

ID Cut Guide

Congratulations on your purchase of an inkjet printer of MIMAKI (print & cut type). This "ID Cut Guide", describes the method for ID cut by using Supported Print & Cutters and the supplied software. Precautions and predefined settings are also described.

The Print & Cutters that can use ID cut are as follows.

- CJV200, CJV300 Plus, CJV330, UCJV300/150, UCJV330

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Notations used in this document

- Items and buttons displayed in menus and on screens are marked with square brackets ([ ]) as in [File].

Screen image used in this document

- The explanation is based on the screen image of RasterLink6Plus as an example.
- RasterLink6Plus, RasterLink7 and RasterLink8 are referred to as RasterLink in together.

Symbols

Important!	• This symbol indicates important information for using this product.
	• This symbol indicates useful information.

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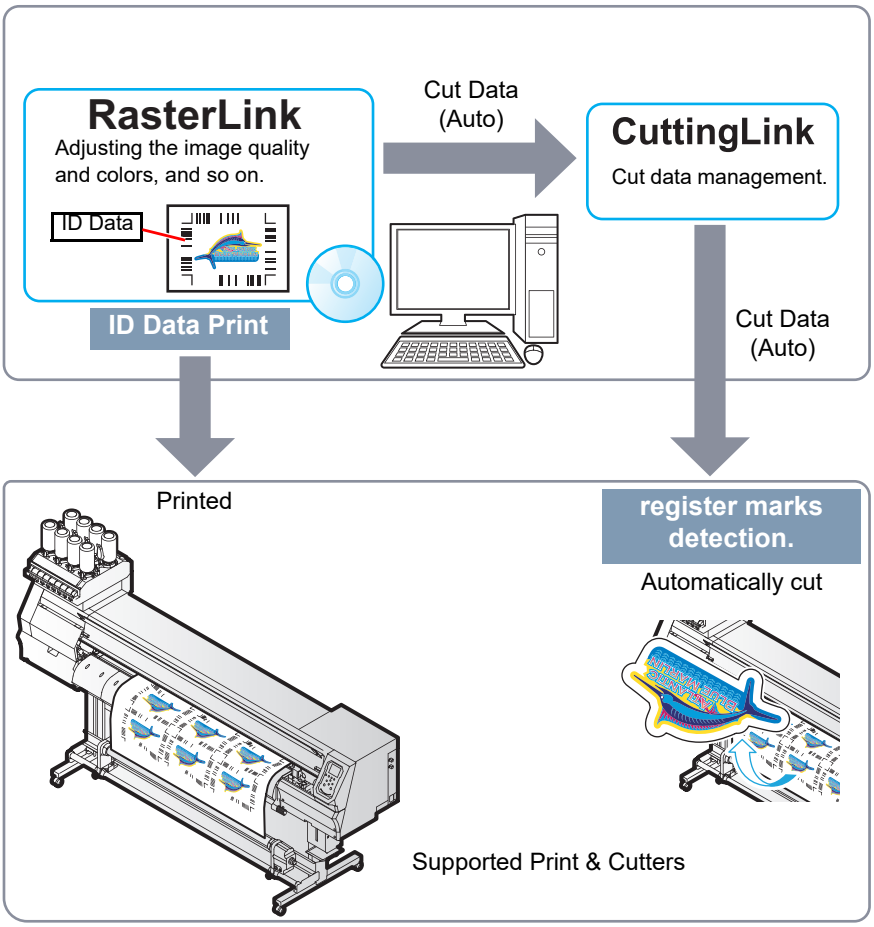
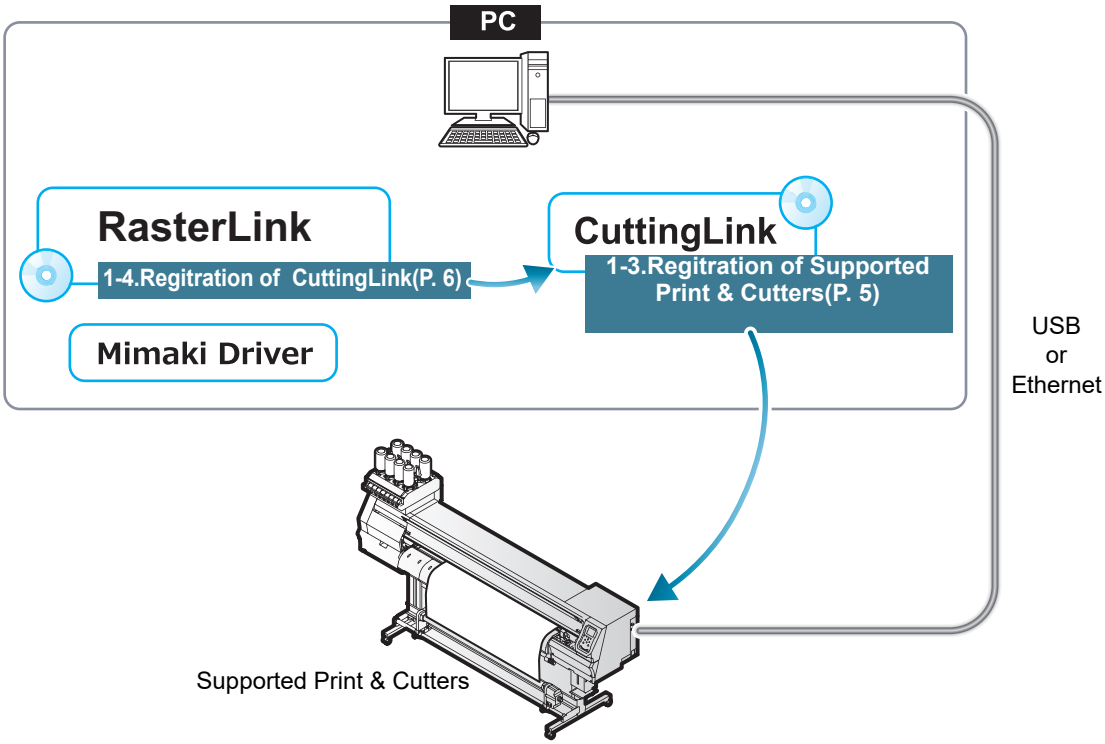
What is ID cut?

It is a function that can cut automatically according to the ID information simply by detecting the ID-contained data. You do not have to output the cut data again after printing the data. (Typically, you need to print the print data and the cut data separately.)

- ID Cut Operation Flow



- System configuration



ID Cut Procedure

1. Software / Driver List (P.5)

1. Connect PC and Supported Print & Cutters with USB or Ethernet. (P.5)
2. Install CuttingLink. (P.5)
3. Register Supported Print & Cutters with CuttingLink. (P.5)
4. Register CuttingLink with RasterLink. (P.6)

2. Set the media. (P.8)

1. Set the media onto Supported Print & Cutters. (P.8)
2. Check if the media margin is sufficient.(P. 8)

3. Print data. (P.9)

1. Start RasterLink. (P.9)
2. Read the Sample file. (P.9)
3. Add register marks and ID data. (P.9)
4. Select [RIP & Print] or [Immediate Print]. (P.10)
5. Click [Start]. (P.10)
6. Data with ID will be printed. (P.10)

4. ID cut (P.11)

1. Detect the register mark (P.11)
2. The cut data is automatically received and cut. (P.11)

Preparation

You need to prepare Supported Print & Cutters and the software/Driver before printing or ID cut.
If preparations have already been completed, go to"Printing, and ID Cutting" (P.8).

• Software / Driver List
The following software applications are required for ID cut. All software applications are provided by MIMAKI ENGINEERING CO., LTD.

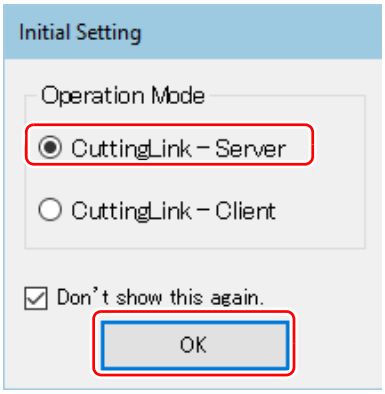
Software/Driver	Description
RasterLink6Plus*1 *2 Ver.2.3 or later RasterLink7*1 Ver.2.3.0 or later (Except UCJV150 series) RasterLink8 Ver.1.0.0 or later	Software to receive image data, edit data with various functions, and send plot data to the printer. • RasterLink6Plus: CD-ROM(supplied with the printer) • RasterLink7: Packing box for SW package (supplied with the printer) Download the installer from the Mimaki website(https://mimaki.com/download/software.html) • RasterLink8:Download the installer from the Mimaki website(https://mimaki.com/download/),or install it via MA2. Refer to the attached **[RasterLink Installation Guide]** or **[Mimaki Application Assistant User's Guide]** for the installation method.
CuttingLink*1 Ver.1.1.6 or later	Software to manage ID cut. Download the installer from the Mimaki website(https://mimaki.com/download/software.html) Refer to the attached **"CuttingLink installation" of RasterLink Installation Guide** for the installation method.
Mimaki Driver	Device driver for using an ink jet printer/cutting plotter from Mimaki Engineering. • When using RaterLink6Plus: CD-ROM(supplied with the printer) When using RaterLink7 or RaterLink8: Install the compatible Mimaki driver for the printer to be used.The Mimaki driver can be downloaded from our official website (https://mimaki.com).Supported printers can be checked on the Mimaki driver download page.

*1.When using a version earlier than the specified version, download the upgraded version of the installer from the Mimaki website.(http://mimaki.com/)
*2.The CJV330 series and UCJV330 series CJV200 series cannot be used with RasterLink6Plus.

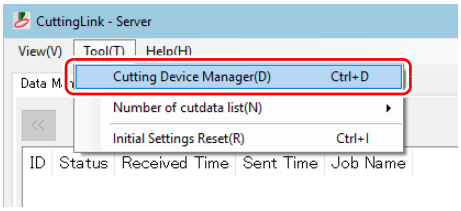
Set up PC.

1. Connect PC and Supported Print & Cutters with USB or Ethernet.
2. Install the software/driver.
   (1) Install Mimaki Driver.
   (2) Install RasterLink.
   (3) Install CuttingLink.
3. Register Supported Print & Cutters with CuttingLink.
   (1) Start CuttingLink from the start menu, or double-click the CuttingLink icon created on the desktop to start CuttingLink.
   • The [Initial Setting] screen is displayed.

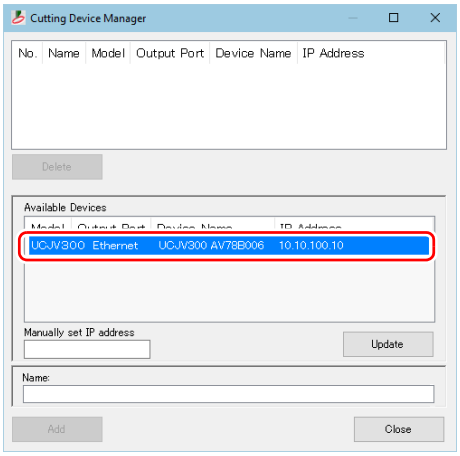
(2) On the [Initial Setting] screen, select [CuttingLink-Server], and then click [OK].
- [Data Management] is displayed.



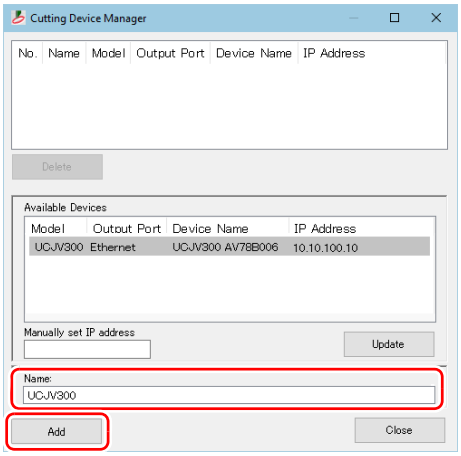
(3) From the [Tool] menu, select [Cutting Device Manager].



(4) Select Supported Print & Cutters in [Available Devices].



(5) Enter [Name], and then click [Add].
- Supported Print & Cutters is added to the list.



(6) Click [Close].

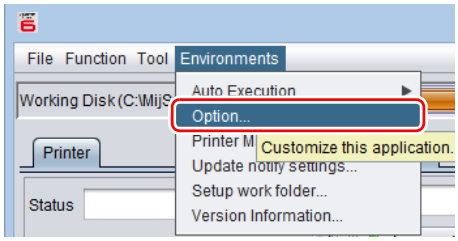
- CuttingLink is started automatically when PC starts.

4. Register CuttingLink with RasterLink.

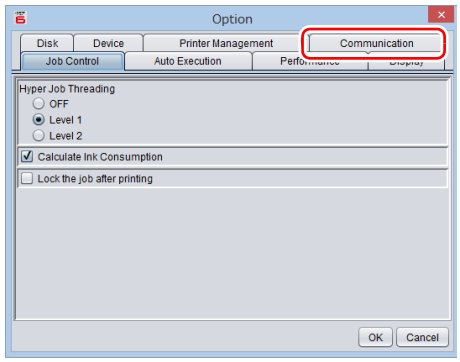
- Make sure that CuttingLink is running.

(1) Start RasterLink.

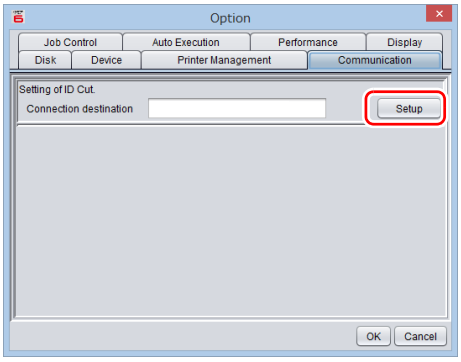
(2) Select [Option...] from the [Environments] menu in Raster-Link.



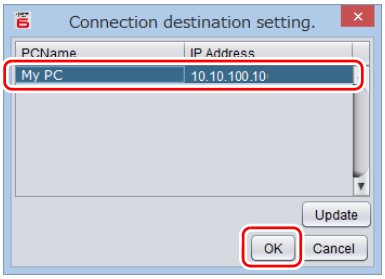
(3) Click the [Communication] tab on the [Option] screen.



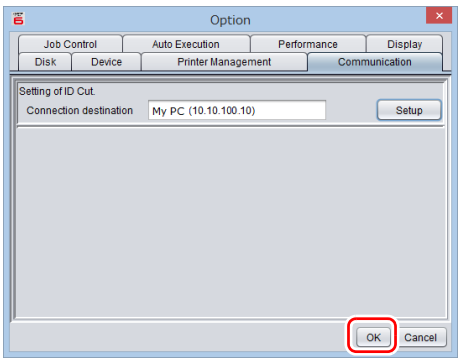
(4) [Setting of ID Cut: Click [Setup] in [Connection destination].
- The [Connection destination setting] screen is displayed.



(5) On the [Connection destination setting] screen, select this my computer, and then click [OK].
- The [Connection destination setting] screen is closed.
- On the [Option] screen, "PC name (IP address)" is displayed in [Connection destination].



(6) Click [OK] on the [Option] screen.
- Connects with CuttingLink.



Printing, and ID Cutting

The following shows you how to use and print out the sample data from the attached manual CD.
If there is no sample data, create data including illustrations and cut lines.

Important!
- Make sure that you check **P.5 "Preparation"** and then print and cut.

Set the media.

For detail, refer to the Supported Print & Cutters Operation Manual.

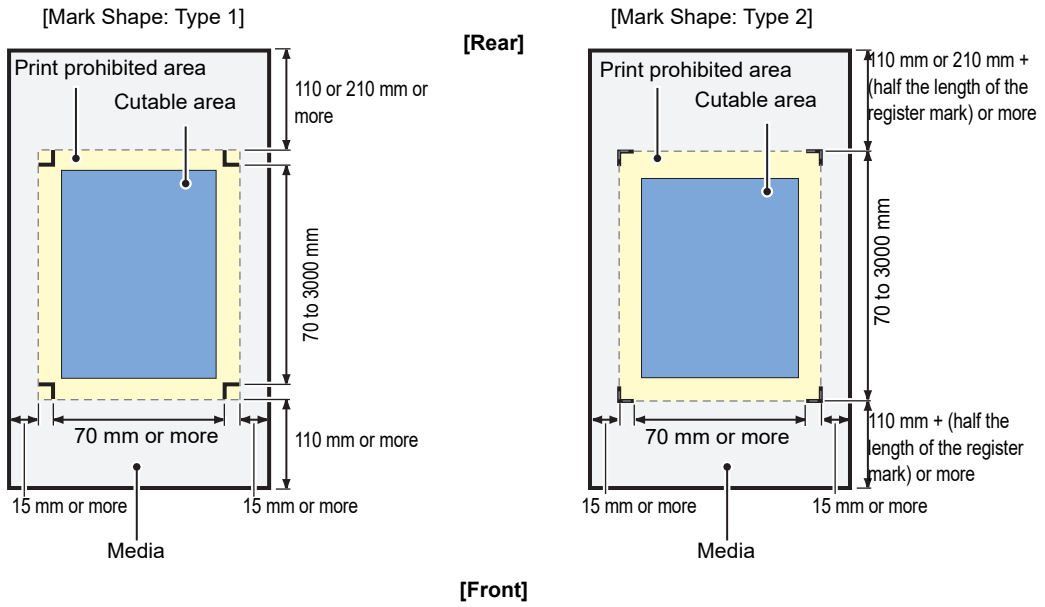
Set the media margins to the following values. If you cut the media rotated by 90, 180, or 270 degrees, set the media margins to the following values at rotated conditions. When performing the auto cut function (a function to automatically cut multiple types of register marks data automatically), set the printed media setting direction to 0 degree or 180 degree. Auto cut cannot be performed if the printed media is set at an angle other than 0 degree or 180 degree.

- Front end: 110 mm or more
- Left and right ends: 15 mm or more
- Rear end: 110 mm or more
  210 mm or more (When copying data with RasterLink.)

1. Set the media onto Supported Print & Cutters.
2. Check if the print start position (the origin) is set at 110 mm or more from the media front end, and 15 mm or more from the media right end.
   - Make sure that the width of the media is equal to or larger than [Entire image width (including the register mark) + right 15 mm + left 15 mm].
   - If any of the front / left / right margin is insufficient, the media end may be mistaken as the register mark, which may cause the register mark detection to start earlier.

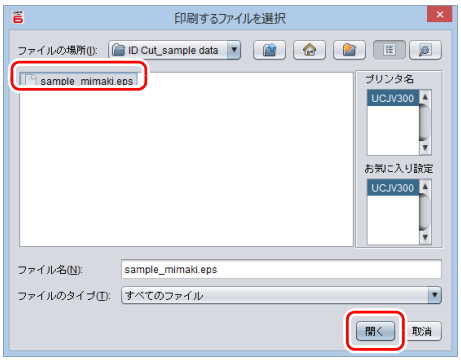
   (1) Press the jog key in the local state. Move the luminous point of the LED pointer so that the print start position is 110 mm or more from the media front end, and 15 mm or more from the right end.

   (2) Press the [ENTER] key.
   - The print start position is changed.
3. Check if the print end position is set at 110 mm or 210 mm (When copying data with RasterLink.) from the media rear end.
   - Make sure that the length of the media is equal to or larger than [Entire image length (including the register mark) + 110 mm + 110 mm or 210 mm(When copying data with RasterLink.)].

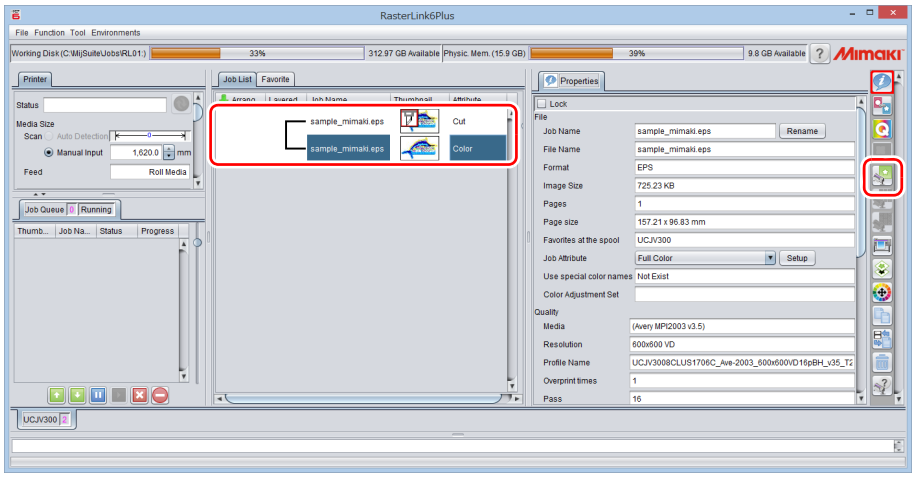


Print data.

1. Start RasterLink.
2. Set the manual CD to your computer.
   - If there is no sample file, create the sample file with the following procedure and go to step 3.
   (1) Create "illustration data" and "cut line data".
   - For details on how to create "illustration data" and "cut line data", refer to the RasterLink Reference guide "RasterLinkTools".
   (2) Placing the "illustration data" on the print layer ([Print] attribute: ON) and the "cut line data" on the cut layer ([Print] attribute: OFF).
3. From the [File] menu, select [Open].
   - The [Select file name to print] screen is displayed.
4. Read the Sample file.
   - If there is no sample file, use the data created in step 2.
   (1) Select the following files on the [Select file name to print] screen, and click [Open].
   For Windows: "CD drive:\EN\English\
   ID Cut_Sample data\sample_mimaki.eps"
   For Macintosh: “CD drive:\Mac_English\
   ID Cut_sample data\sample_mimaki.eps”
   No manual CD: Create the data in Step 2.
   (2) The sample data is loaded.
   - Sample data is created with RasterLinkTools.



5. Select the read data and click the [General Print] icon in the function icon list on the right side of the screen.



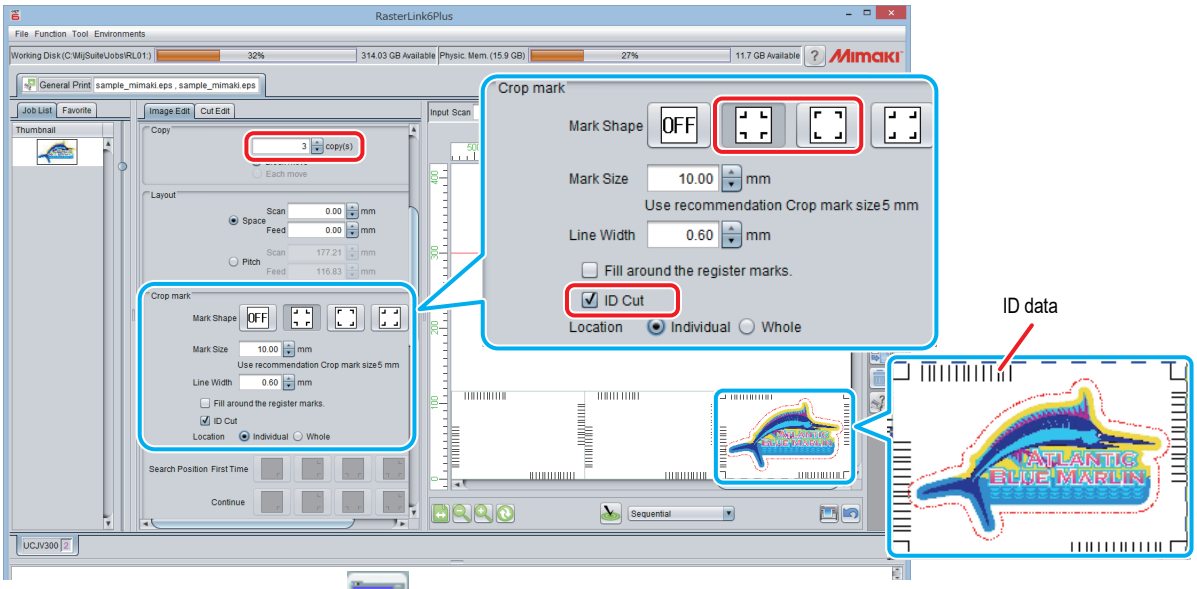
6. Add register marks and ID data.

The conditions under which ID cut is possible are as follows.
- Mark Shape: [Type 1] or [Type 2]
- Size of data: more than 70 mm in length and width

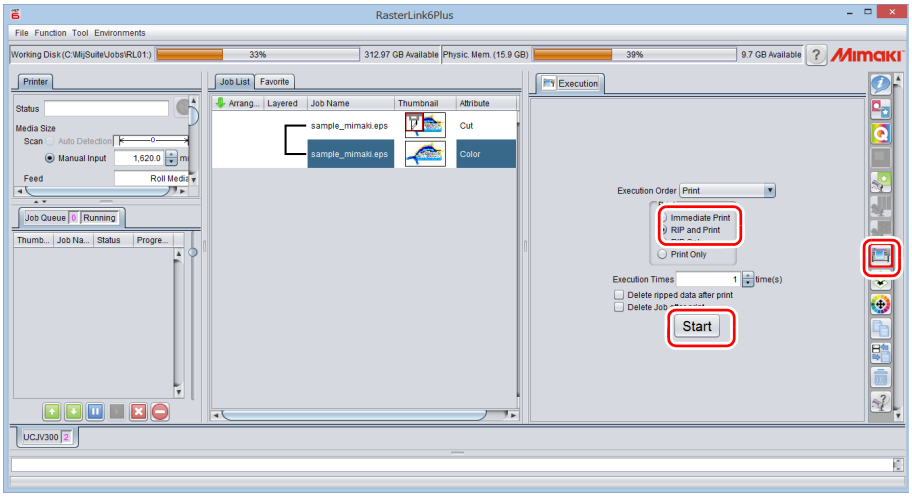
(1) Set the number of copies.
(2) Select a register mark shape.

(3) Check [ID Cut].

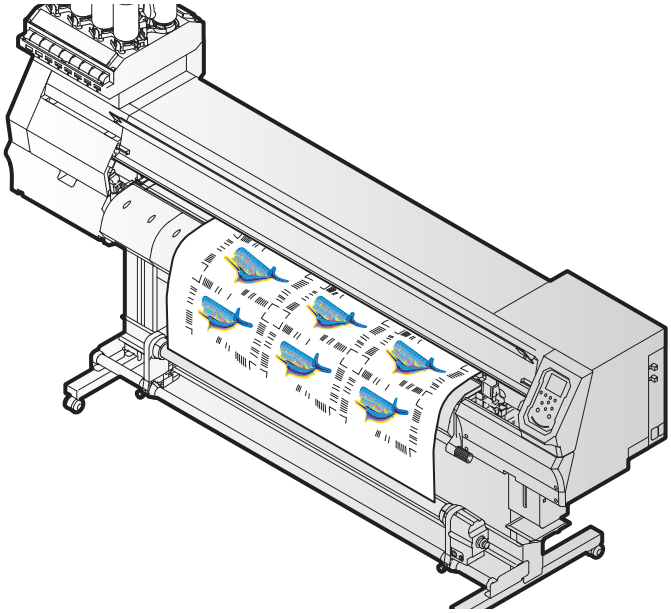
- Register marks and ID data are added to the data.



7. Click the Execution icon in the function icon list on the right side of the screen.
8. Select [RIP & Print] or [Immediate Print].
9. Click [Start].



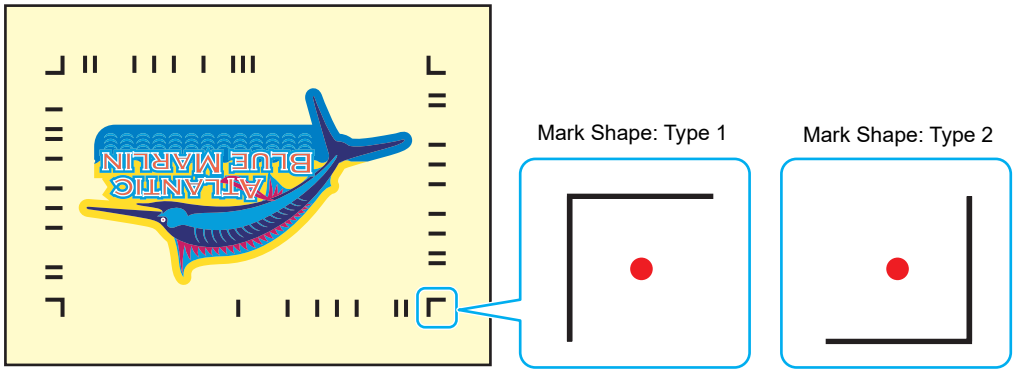
10. Data with ID will be printed.



ID cut

1. Detect the register mark
   (1) Press the [SEL] key twice in LOCAL mode.
   (2) Press [▲][▼] key to select [MARK DETECTION], and press the [ENTER] key.
   - This switches to the mark detection mode.

   (3) Press the [▲][▼][◀][▶]keys to move the luminous point of the LED pointer to the center of the register mark.



   (4) Press the [ENTER] key.
   - The register mark is detected.
   - The printer is in remote mode.

2. The cut data is automatically received and cut.

How to handle the following cases.

Troubleshooting

The [ID Cut] check box is disabled in RasterLink.

↓

Is the data size of the job 70 mm or more?

- **No** → Set the data size to 70 mm or more.
- **Yes** ↓

Have you selected [Type 1], [Type 2] for the register mark shape?

- **No** → Select [Type 1] or [Type 2] for register mark shape.
- **Yes** ↓

Contact the call center.

In the message display field of RasterLink, error message,"Can not get ID cut ID, printing is interrupted" is displayed and printing is not possible.

↓

Is it connected to the CuttingLink - Server PC via Ethernet?
If CuttingLink and RasterLink are installed on the same PC, proceed to "Yes".

- **No** → Connect with Ethernet.
  (☞P.6 "Register CuttingLink with RasterLink.")
- **Yes** ↓

Is CuttingLink started with CuttingLink?

- **No** → Start CuttingLink with CuttingLink.
- **Yes** ↓

Is CuttingLink - Server PC properly registered with RasterLink?
Confirm the following contents.
On the RasterLink [Environments] menu - [Option ...] - [Communication] tab, is the CuttingLink - Server name displayed in "Setting of ID Cut" - "Connection destination"?

- **No** → Register CuttingLink - Server PC name again.
  (☞P.6 "Register CuttingLink with RasterLink.")
- **Yes** ↓

Connected to the CuttingLink - Server PC you registered?
Check with the following procedure.

(1) On the RasterLink [Environments] menu - [Option ...] - [Communication] tab, click [Setting] of "Setting of ID Cut" - "Connection destination"?
(2) On the [Connection destination setting.] screen, click the [Update].
(3) Is the registered CuttingLink - Server PC name displayed?

- **No** → Register CuttingLink - Server PC name again?
  - If the address of the CuttingLink - Server PC has been changed, re-registration is necessary.

  (☞P.6 "Register CuttingLink with RasterLink.")
- **Yes** ↓

Contact the call center.

Even if register marks are detected with Supported Print & Cutters, ID cut is not performed.

↓

Is PC and Supported Print & Cutters connected via USB or Ethernet?

→ **No** → Connect with USB or Ethernet.

↓ **Yes**

Is Supported Print & Cutters properly registered in CuttingLink - Server?
Confirm the following contents on the [Cutting Device Manager] tab of CuttingLink - Server.
(1) Is [Output Port] the same as what is physically connected? (USB/Ethernet)
(2) Is the serial number displayed in [Device Name] the same as the serial number of the Supported Print & Cutters main unit?

→ **No** → Register Supported Print & Cutters with Cutting -Link.(☞P.5 "Register Supported Print & Cutters with CuttingLink.")

↓ **Yes**

Is the ID cut setting correct in Supported Print & Cutters?
Check the following contents on the operation panel.
- Is [CUTTING] - [MARK DETECTION] - [FORM] and [SIZE] the same as the print register mark data?

→ **No** → Set the same register mark shape and size as the print register mark data with Supported Print & Cutters.

↓ **Yes**

Contact the call center.

When multiple register marks with different IDs are attached, does not cut continuously.

↓

Is the shape and size of the register mark printed all the same?

→ **No** → Make all shapes and sizes of register marks same.

↓ **Yes**

Are the values for [CUTTING] - [MARK DETECTION] - [DETECT AREA] appropriate on Supported Print & Cutters?

→ **No** → Enter the correct set [cutting] - [register mark detection] - [detection area] with UCJV 300/150. (☞P.19 "Set the register mark detection area on the operation panel of Supported Print & Cutters.")

↓ **Yes**

Contact the call center.

Changed CuttingLink - Server.

Register CuttingLink again with RasterLink.
(☞P.6 "Register CuttingLink with RasterLink.")

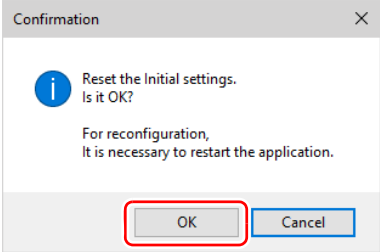
Back up the data of CuttingLink - Server.

Back up the following folders.
C:\MimakiTools\CuttingLink\DT

Migrate CuttingLink - Server.

1. Reset initial setting on CuttingLink - Server PC before migration.

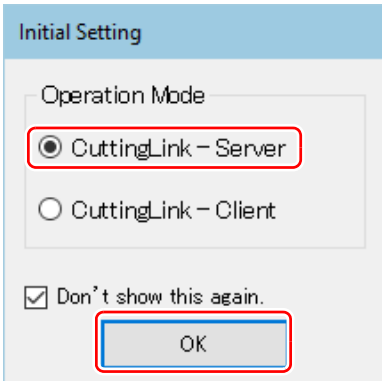
1. Back up CuttingLink - Server data.
   (☞P.14 "Back up the data of CuttingLink - Server.")
2. From the [Tool] menu, select [Initial Settings Reset] and click the [OK] button.



3. Exit CuttingLink.

2. Configure Server on CuttingLink - Server PC to be migrated.

1. Install and start CuttingLink.
   • After restarting the PC after installation, CuttingLink will be started automatically.
2. On the [Initial Setting] screen, select [CuttingLink - Server], and then click [OK].



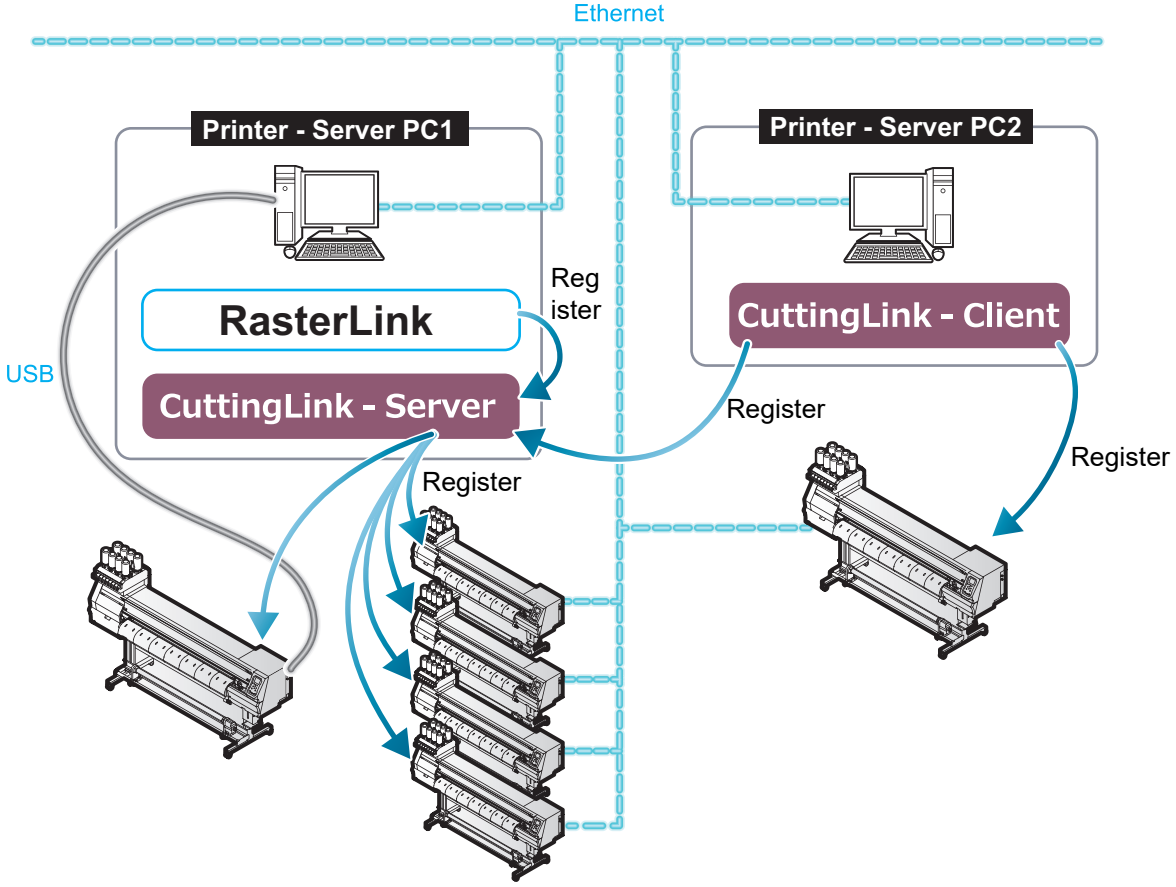
3. Exit CuttingLink.
4. Copy the data backed up on the PC before migration to the folders below.
   • C:\MimakiTools\CuttingLink\DT
5. Start CuttingLink.
6. Register the Supported Print & Cutters.
   (☞P.5 "Register Supported Print & Cutters with CuttingLink."(3) to (6))

3. Register CuttingLink - Server PC on RasterLink.

☞P.6 "Register CuttingLink with RasterLink."

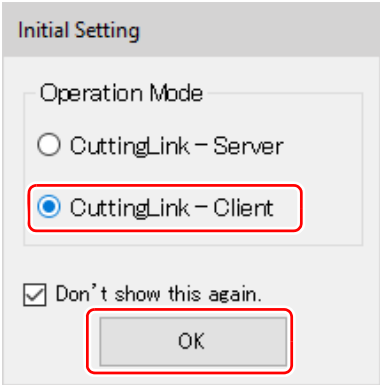
When to use CuttingLink - Client?

CuttingLink - Server can register up to five plotters. As shown below, use Cutting - Client to connect more than 6 plotters.



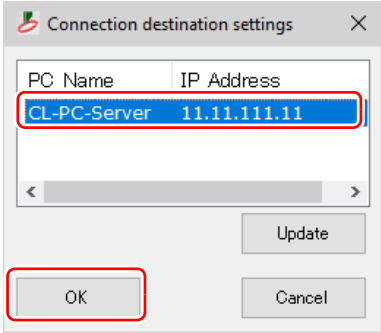
How to set CuttingLink - Client

1. Install CuttingLink on the PC connecting 1st to 5th Supported Print & Cutters, and set it to CuttingLink - Server.(☞P.5 "Install CuttingLink." or later)
2. Install CuttingLink on the PC connecting the sixth Supported Print & Cutters and set it to CuttingLink - Client.
   (1) Install CuttingLink on the PC to which the plotter is connected and start it.
   (2) On the [Initial Setting] screen, select [CuttingLink - Client], and then click [OK].



(3) In the [Connection destination settings] list, select the CuttingLink - Server to connect and click [OK].

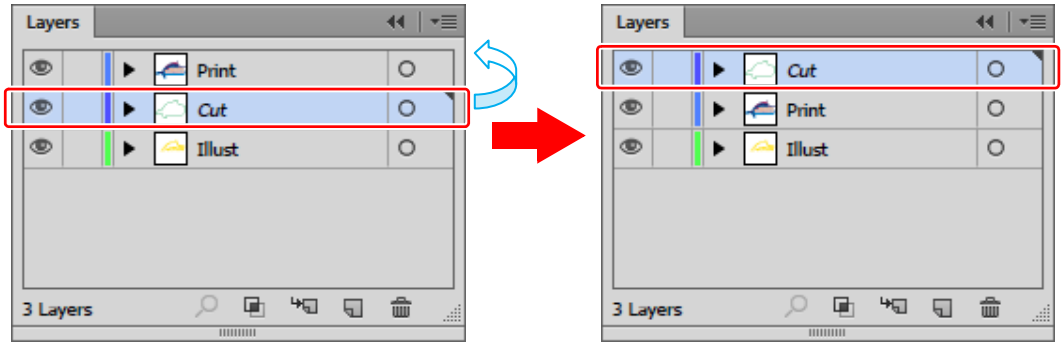
- Make sure that CuttingLink - Server is running with CuttingLink - Server PC.
- If the [Connection destination settings] screen does not appear, select the [Connection destination settings] on the [Tool] menu.
- If the PC is not displayed, click[Update].



Data in the same place is cut twice

For data of Adobe Illustrator 9 or later to which a transparent effect has been applied, when Print & Cut is executed in RasterLink, cut data may be cut twice.
In such a case, change the settings as follows by using Adobe Illustrator.

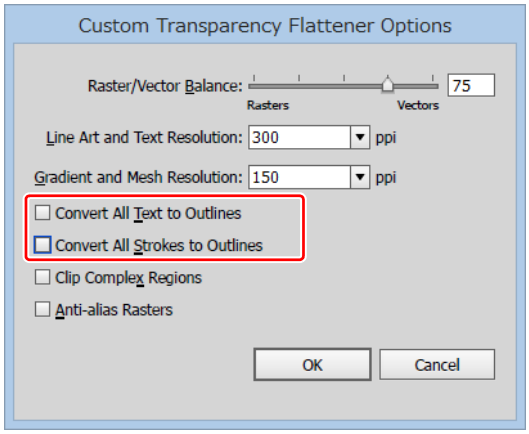
(1) Separate the “Print data” and the “Cut data”, and then move the “Cut data” layer on top.



(2) From the [File] menu, select [Document Setup...].

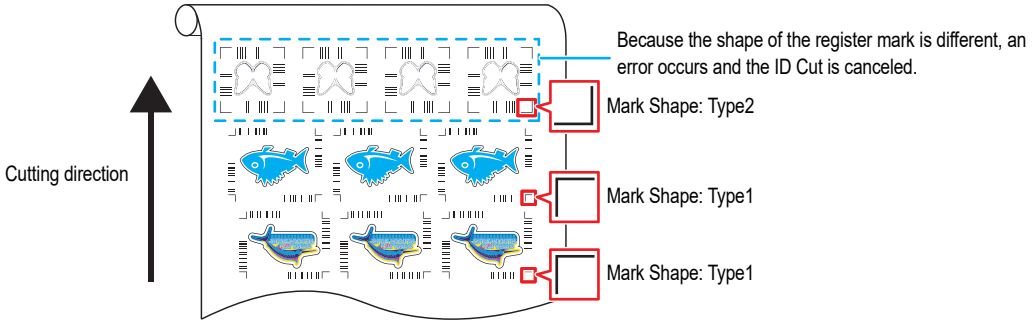
(3) On the [Document Setup] dialog, click ”Preset” on the right of [Custum...].

(4) On the [Custom Transparency Flattener Options] dialog, "Convert All Text to Outlines" and set “Convert All Strokes to Outlines” to OFF.



When you want to ID cut multiple types of data

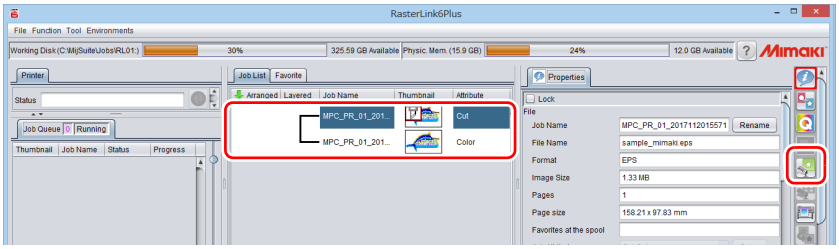
If you print multiple register marks and perform ID Cut, set the same shape and size for all the register marks. If any of the register marks has a different size or shape, the ID Cut is canceled.
When performing the auto cut function (a function to automatically cut multiple types of register marks data automatically), set the printed media setting direction to 0 degree or 180 degree. Auto cut cannot be performed if the printed media is set at an angle other than 0 degree or 180 degree.



1. Read print & cut data with RasterLink.

   Data size should be more than 70 mm in length and width.
   Create print & cut data in the following way.
   - Create print data and cut data with Adobe Illustrator / Corel DRAW, and output ID cut without creating and recognizing register marks with FineCut. (Data will be sent automatically to RasterLink.)

2. Select the data read with RasterLink and click the [General Print] icon in the function icon list on the right of the screen.



3. Set printing conditions.

   (1) Set [Scale].(Arbitrary)
   - Scale can not be set for data with ID sent from FineCut.

   (2) [Rotation] and [Mirror] are set.(Arbitrary)

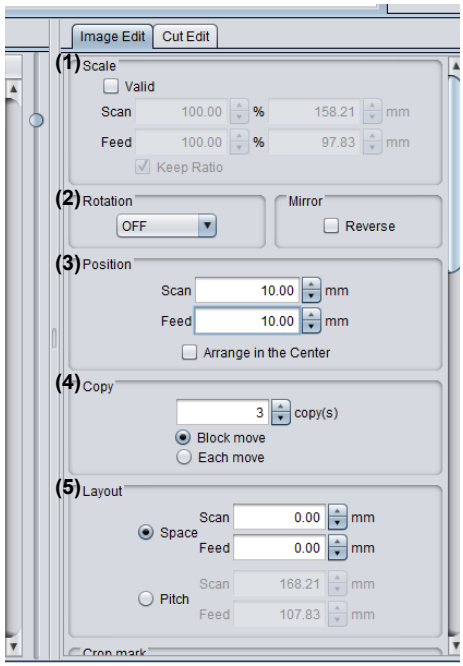
   (3) Set [Scan] and [Feed] of [Position].(Arbitrary)
   - It is unnecessary to set when setting a margin of 10 mm or more.
     If not, enter "10 mm" or more in [Scan] and [Feed].

   (4) Enter [Copy] number.

   (5) Set [Space] or [Pitch] of [Layout].
   - When adding register marks, the following values are automatically set for [Space].

     When the register mark shape is [Type1]: Register mark size

     When the register mark shape is [Type2] 0mm



4. Add register marks and ID data.

(1) Select the register mark size.

- [Type1], [Type2]

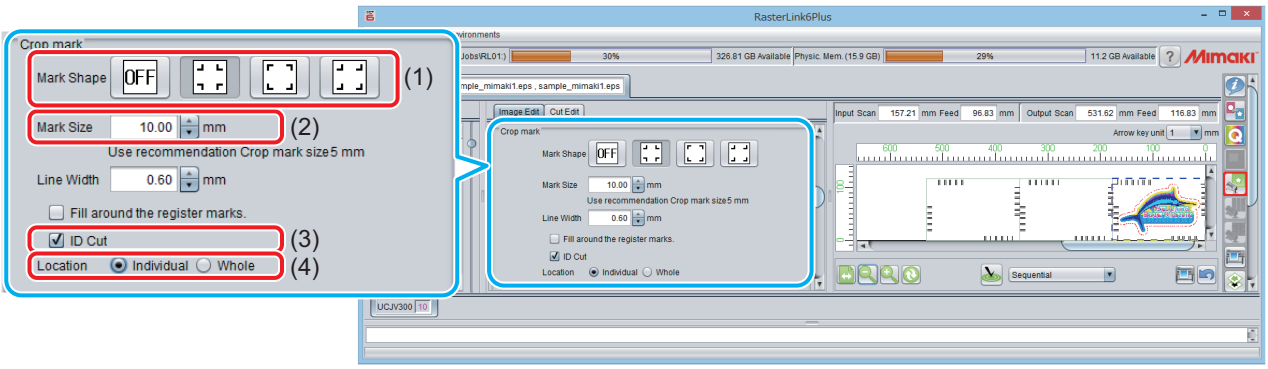
(2) Enter the register mark size.

(3) Check [ID Cut].

- Register marks and ID data are added to the data.
- For ID Cut data sent from FineCut, the [ID Cut] check box is already checked. You can not uncheck it.

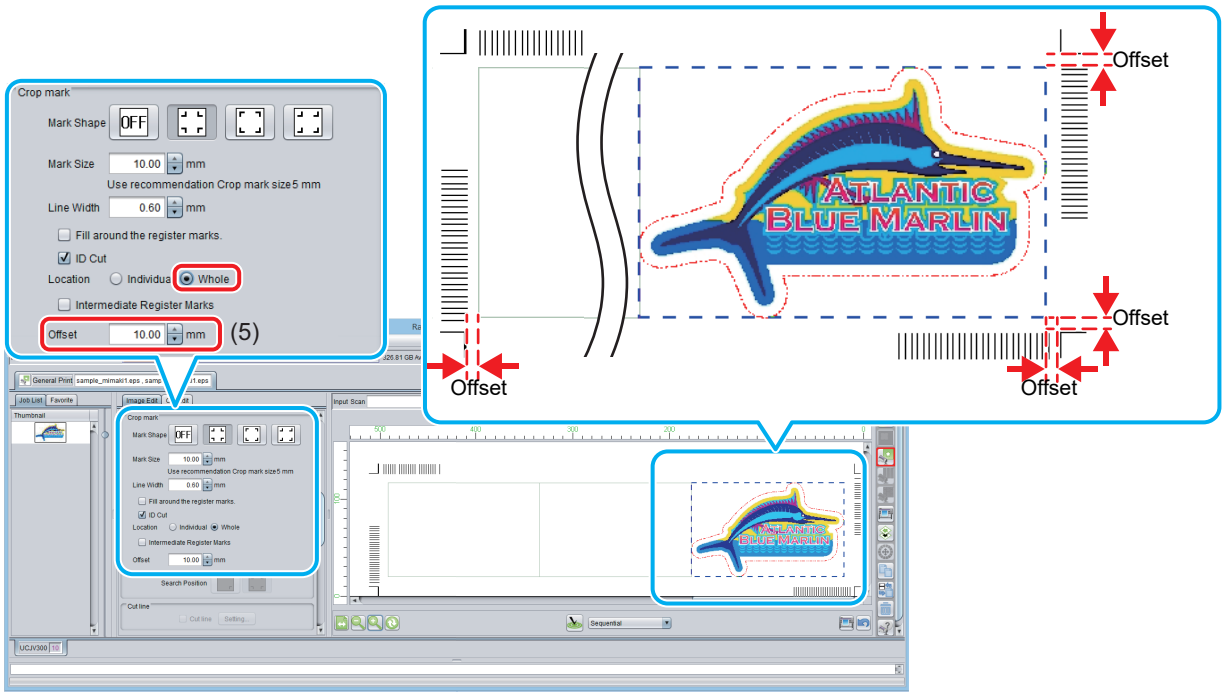
(4) Select [Location] of register mark.

- Individual: Register marks and ID data are added for each data.
- Whole: Register marks and ID data are added to enclose all copied data.



(5) [Offset] is set when [Whole] is selected in (4).

- Offset: Data and margin of register mark



5. Output data with RasterLink(☞P.9 "Print data.")

- Data with ID will be printed.

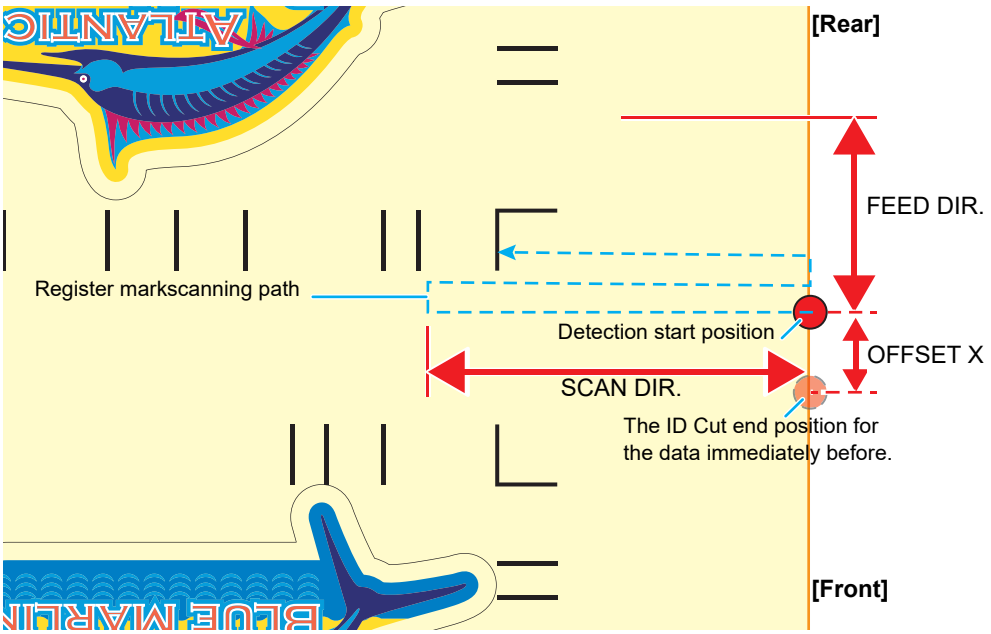
6. Create another data and repeat Step1 to Step5.

7. Set the printed media on Supported Print & Cutters.

8. Set the register mark detection area on the operation panel of Supported Print & Cutters.
   (1) Press the [MENU]([FUNC1] key) in LOCAL mode.
   (2) Press [▲][▼] key to select [CUTTING], and press the [ENTER] key.
   (3) Select [MARK DETECTION], and press the [ENTER] key.
   (4) Press the [FUNC3] key.
   (5) Press the [▲][▼] key to set the following items, and press the [ENTER] key.

Item		Value	Set value
DETECT AREA		-	You can configure various settings for the register mark operation.
	SCAN DIR.	DEFAULT, 0 cm, 5 cm to the machine width	Configure the detection width for the scanning direction. The register mark is detected while scanning is performed bidirectionally at the set detection width. • DEFAULT: The register mark is detected at half the media width. • 0 cm: The register mark is detected only in the feed (media feed) direction. • 5 cm to the machine width: The register mark is detected with the set width.
	FEED DIR.	10 to 50 cm	Set the detection distance in the feed (media feed) direction.
	OFFSET X	0 to 100 cm	Set the Detection start position after the ID Cut.

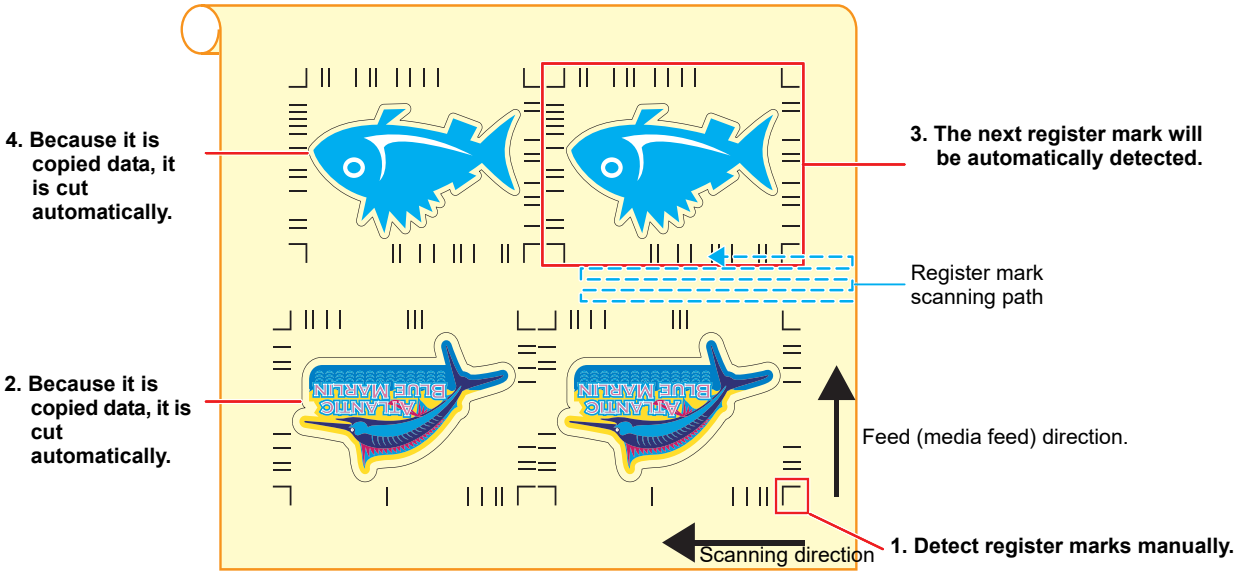
• SCAN DIRECTION, FEED DIRECTION, and OFFSET X of [DETECT AREA] are as follows.



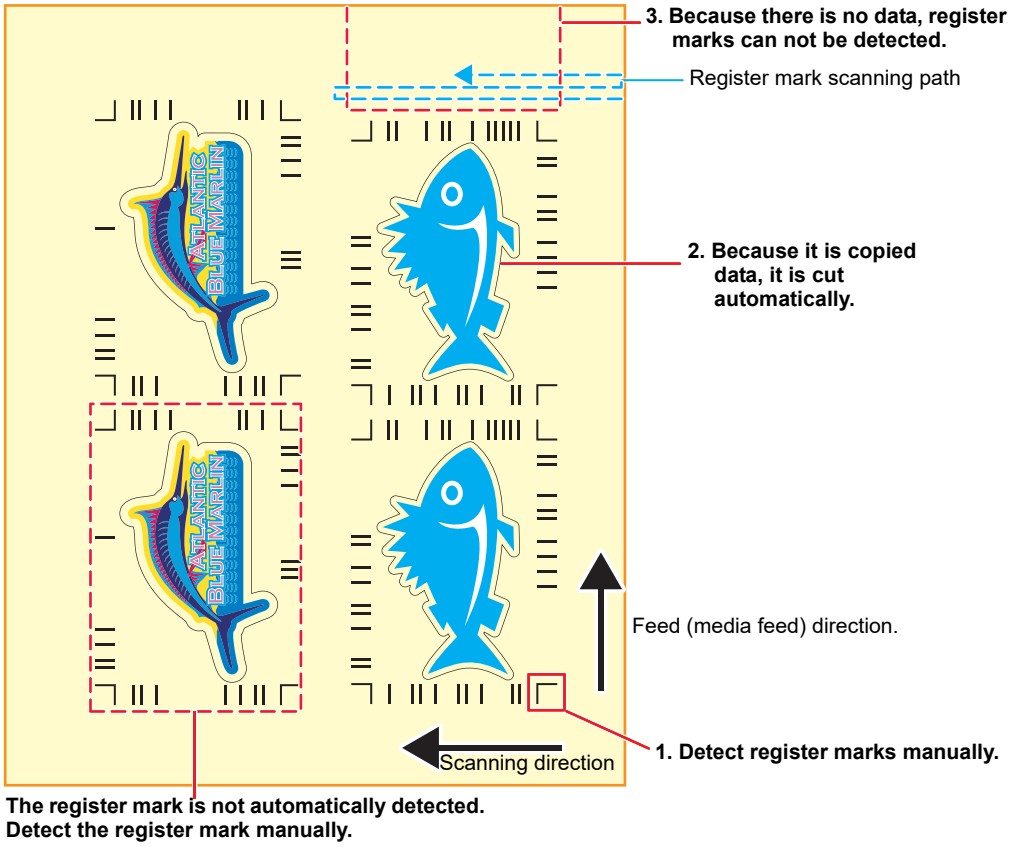
9. Set the printed media.

The register mark is detected in the feed (media feed) direction.
Set the media margins to the following values.

- Front end: 110 mm or more
- Left and right ends: 15 mm or more
- Rear end: 210 mm or more



- The register mark cannot be detected in the scanning direction. If you have placed the ID data in the scanning direction, detect the register mark manually. When performing the auto cut function (a function to automatically cut multiple types of register marks data automatically), set the media setting direction to 0 degree or 180 degree.



10. Detect the register mark, and then the cut data is automatically received and ID Cut.
    - After the ID Cut, the next register mark will be automatically detected.
11. If you have multiple pieces of data, [Auto detection -> ID Cut] is repeated until all pieces of data are finished.

MEMO:

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