Roland

To Users of VersaWorks 7

Points for Outputting Data to a GS2-24

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Introduction

About the Contents of This Manual

This manual contains the basic operation methods for using VersaWorks to perform cutting with a GS2-24.
VersaWorks is not included with this product. The explanations in this manual assume that you own a Roland DG printer and that VersaWorks has already been installed.

About VersaWorks Help (Electronic-format Manual)

The operation method of VersaWorks is written in this manual. The VersaWorks help is an instruction manual that you can view from the computer screen. The help can be viewed once the software is installed.
To display the help, perform the following operations.

Start VersaWorks, click the [Help] menu, and then click [Show Help].

Connecting the GS2-24

USB Connection

This section explains how to use a USB cable to connect the GS2-24.

Procedure

1. **Install the printer driver for the GS2-24, and then connect the GS2-24 and the computer using a USB cable.**
   For information on how to perform installation, see the GS2-24 Installation and initial settings.
   ☞ Installation and initial settings
2. **If the GS2-24 is off, turn it on.**
3. **Start VersaWorks.**
4. **Click [Home].**
5. **Click [+ Add New Printer].**
   [Printer Registration] window appears.
   After searching for a printer within the same subnet, click somewhere outside the [Printer Registration] window.
6. **Click [Manual Registration].**
   [Printer Registration (Manual Registration)] window appears.
7. **Click [Printer Driver].**
8. **Click the down arrow on [Printer Name], then click [Roland DG GS2-24].**
9. **Click [Verify].**
   If the window displays the model name, the firmware version, and other machine information, the connection has been established. If this information does not appear, check whether the cable is connected and the machine is on.
10. **Click [Register].**

This completes the preparations for cutting using VersaWorks.

Ethernet Connection (TCP/IP Connection)

This section explains how to use an Ethernet cable to connect the printer.

Procedure

1. **Perform all the preparations required for establishing an Ethernet connection, including installing the printer driver. Then, connect the GS2-24 and the computer using Ethernet cables.**
   For information on how to configure the settings and how to perform installation, see the GS2-24 Installation and initial settings.
   ☞ Installation and initial settings
2. **If the GS2-24 is off, turn it on.**
3. **Connect the GS2-24 and the computer (RIP server) to the network.**
4. **Start VersaWorks.**
5. **Click [Home].**
6. **Click [+ Add New Printer].**
   [Printer Registration] window appears.
   After searching for a printer within the same subnet, click somewhere outside the [Printer Registration] window.
7. **Click [Manual Registration].**
   [Printer Registration (Manual Registration)] window appears.
8. **Click [Printer Driver].**
9. **Click the down arrow on [Printer Name], then click [Roland DG GS2-24].**
10. **Click [Verify].**
    If the window displays the model name, the firmware version, and other machine information, the connection has been established. If this information does not appear, check whether the cable is connected and the machine is on.
11. **Click [Register].**

This completes the preparations for cutting using VersaWorks.

Creating Cutting Data

The term "cutting data" is used to refer to data that includes cutting lines. Use illustration software (such as Adobe Illustrator) to create the cutting data.
This section explains how to create cutting data using Adobe Illustrator and CorelDRAW, which are typical pieces of application software. However, this section assumes that you are already familiar with the basic operations of these pieces of application software.

Adobe Illustrator 2024 / 2025

1. Register the spot color.

Register in the swatch library the special color to use for cutting lines.

1 Download the swatch file.

Perform this operation on the computer where VersaWorks is installed.

① **Go to https://downloadcenter.rolanddg.com/VersaWorks7#softwere.**

② **Download the swatch file for Adobe Illustrator.**

③ **Unzip the downloaded file (*.zip).**

2 Copy the unzipped [Roland VersaWorks.ai] file to the [Swatches] folder in the folder where Adobe Illustrator is installed.

The folders under the Illustrator installation folder are composed as shown below.
Presets/(language folder, example: en-US)/Swatches
This step requires administrator rights on the computer. If you do not have these rights, ask the administrator to perform this work.

2. Create the cutting data.

Create cutting data, which includes the cutting lines.

1 Start Adobe Illustrator, and then create the illustration data.

2 Click the [Window] menu - [Swatch Libraries] - [Roland VersaWorks].

The [Roland VersaWorks] swatch library is displayed.

3 Select only the path that you want to make into a cutting line, and then select [line] in the tool palette.



4. **Select the swatch named [CutContour] in the swatch library.**
   The color of the specified path changes to [CutContour].
5. **Save the data in EPS or PDF format.**

CorelDRAW 2024 / 2025

1. Register the spot color.

Spot colors used for cutting lines are included in CorelDRAW 2024 / 2025, so there is no need to register the spot color.

2. Create the cutting data.

Create cutting data, which includes the cutting lines.

1. **Start CorelDRAW, and then create the illustration data.**
2. **On the [Window] menu, click [Dockers] - [Palettes].**
3. **In the Palettes window, click [Palette Libraries] - [Spot] - [Roland] - [Roland VersaWorks] to select it.**
   The [Roland VersaWorks] palette is displayed on the screen.
4. **Select only the path that you want to make into a cutting line, and then click [CutContour] in the [Roland VersaWorks] palette.**
5. **Click [File] - [Export] to save the file in EPS or PDF format.**

Preparations for Cutting

1. Determine the cutting conditions.

For the cutting conditions, you have to set appropriate values for each type of material. When you are cutting a material that you have never used before, use a piece of the material to determine the cutting conditions in advance.

1 Operate the GS2-24 to perform a cutting test.

See “Step 3: Perform Test Cutting” under “Preparations for Cutting Output” under “Basic Operation” under “Basic Handling Methods” in the GS2-24 user’s manual.

2 View the results of the cutting test, and then change the cutting conditions.

- Cutting force (pressure during cutting)
- Cutting speed (speed during cutting)
- Cutting-in amount (amount of blade extension)

For details on how to change the settings, see “Adjusting the Cut Setting” under “Optimizing Cutting Quality” under “Optimizing Quality and Efficiency” in the GS2-24 user’s manual.

3 Change the conditions, and then perform a cutting test again.

4 Repeat steps 2 and 3 until the cutting conditions are optimized.

Cutting after Printing

This section explains how to use the GS2-24 to cut material that has been printed with a printer. The procedure explained here uses [Queue A] for the job queue folder as an example. When using a different folder, replace [Queue A] with the other one in this procedure.
Flatbed-type UV printers do not support printing followed by cutting.

1. Print with crop marks.

Add the crop marks for aligning the positions, and then perform just printing.

IMPORTANT

- Before printing, ensure that the margins are as follows.
  - ➢ Margins from left and right edges of the material to the crop marks: 10 mm (0.4 in.) or more
  - ➢ Margin from leading edge of the material to the crop marks: 20 mm (0.79 in.) or more
  - ➢ Margin from trailing edge of the material to the crop marks: 50 mm (1.97 in.) or more
- When using the pinch rollers in the range of the leftmost grit pattern, ensure that the distance from the left edge of the left grit pattern to the crop marks is at least 30 mm (1.19 in.). Crop marks cannot be read if the distance is less than 30 mm (1.19 in.).

1. **Click on the [Queue A] tab of the printer to use.**
   The [Queue A Properties] window appears.
2. **Click .**
3. **Select the [Crop Marks (Print&Cut Alignment)] check box.**
4. **Click .**
5. **Select [Print Only] from the [Operation Mode] list box.**
6. **Click [OK].**

IMPORTANT

If the source data for the job is an EPS file and a cutting line has been drawn around the border, configure the settings shown below before adding the job to the job list. If you do not configure these settings, a part of the border may not be cut.

① **On the [Queue Properties] window, click .**

② **Enter a value of 0.35 mm (13.8 mil) or more for [Margin] under [EPS].**

- **If you enter a value less than 0.35 mm (13.8 mil), no margin will be added.**
- **If you configure the zoom in/zoom out settings on the [Queue Properties] or [Job Settings] window, the margin will also be zoomed in on/zoomed out from. When you add a job to the job list, a margin with the width set with [Margin] is automatically added within the range specified by the border.**

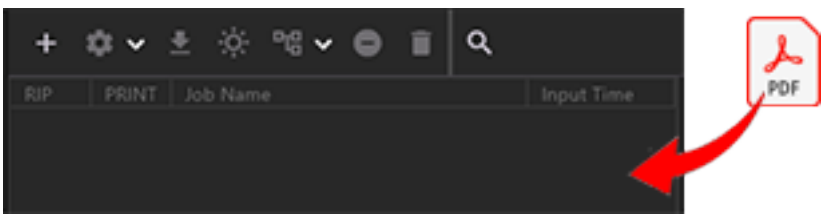
7. **Click [+] on [Queue A] tab.**
   The [Open] window is displayed.

8 **Select the cutting data to add to the job list, and then click [Open].**

The selected data is displayed in the job list. Select the data that includes the cutting lines (paths specified with CutContour).

MEMO

You can also add the cutting data to the job list directly by dragging this data to the job area.



9 **Select the job to print from the job list, and then click .**

The job is printed with crop marks.

10 **Right click the printed job, click [Export] - [Export ro Cutting Machine].**

[Export to Cutting Machine] windows appears.

11 **Select the target machine (GS2-24) and target queue (ex. Queue A), click [OK].**

2. Cut the printed material.

Load the printed material into the GS2-24, and then perform cutting.

1 **Perform laminating or other required processing, and then load the material into the GS2-24.**

Load the material according to “Setting Up Flat Material” under “Setting Up Material” under “Basic Operation” under “Basic Handling Methods” in the GS2-24 user’s manual.
After loading the material, press [▲] and [▼] on the machine to move the material and position the crop marks above the blade protector.

2 **Switch the GS2-24 to active.**

3 **As necessary, perform the operations shown below.**

① **Click the target queue tab to active, then double click the target job.**

② **If you cut the border of the job regardless of whether a cutting line is present, select the [Cut Image Boundaries] check box.**

③ **If you set printer cutting conditions such as the blade force, select the [Enable Advanced Settings] check box to enable the settings.**

Set the cutting conditions.

④ **Click [OK].**

4 **Select the job to cut from the job list.**

5 **Click .**

The machine reads the crop marks to align the positions, and then cuts the material.