



Double-sided printing guide - HP Latex 730 & 830 Printer Series

SUMMARY

Instructions for setting up and performing double-sided printing.

About this edition

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1 Introduction

The aim of this guide is to assist the user with a new workflow for processing and printing jobs for double-sided printing. This guide is valid from VEGA_20_26_16.1.



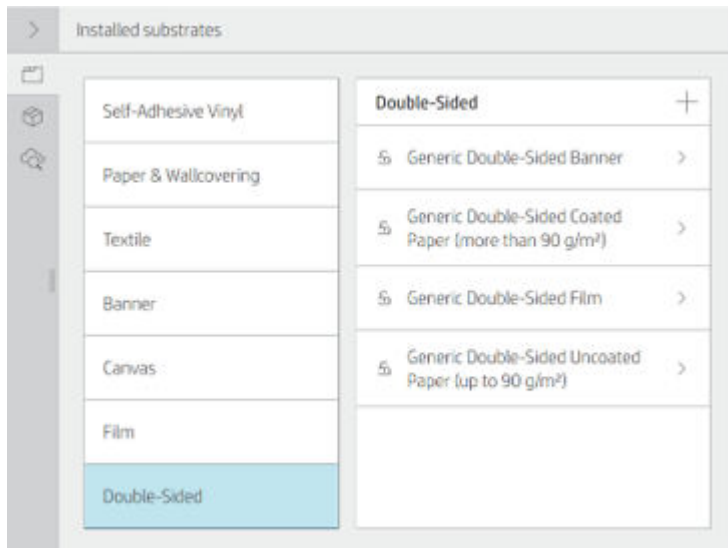
NOTE: For multiple copies, process all 10 jobs together in the RIP as a single job. This generates only one set of registration marks, which is recommended since the optimal distance between registration marks is ~10 m.

2 Load Media Side A

This section explains how to load the media and prepare the printer for Side A printing.

Load Media Side A

1. Choose your media in **Double-Sided** category.



2. Select **Double-Sided** and check the button for **Side A**.

Substrate load: Substrate configuration

Loading method: Assisted feed & auto-deskew

Skew acceptance: From 1 to 5

Double-sided: For double-sided printing

Side A

☐ Off

☒ Side A

☐ Side B

Cancel Continue

3. If the media is curling upwards, change the load Method to **Manual**. Otherwise, use **assisted feed & auto-deskew**. If the material curls more on one side than the other, designate the side that curls most as side A. The use of edge holders is recommended to avoid crashes with the media curling.
4. Proceed with the media load following front panel steps.



NOTE: Attach the leading edge to the take-up reel before launching the job. This will provide enough spare length to print side B afterwards.

3 Load Media Side B - Automatic

This section explains how to reload the media for side B printing using an automatic load.

Load Media Side B - Automatic

1. Unload the roll from the media input and replace it with the side A printed roll from the TUR.

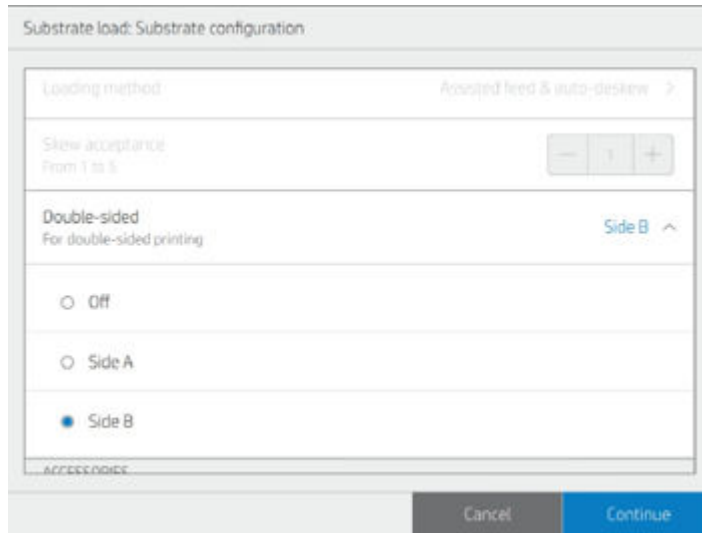
 **IMPORTANT:** Do not turn the roll around, feeding it directly will already leave the printed side A in the interior and the blank side ready to be printed with side B.

2. Load an empty core in the TUR.

 **IMPORTANT:** Attach the TUR on the fly if needed but don't CUT the media.



3. Load the media again using the same profile as above, then select **Side B**.



The image shows a software dialog box titled "Substrate load: Substrate configuration". It contains several settings:

- Loading method:** Set to "Acoustic feed & auto-deskew" with a right-pointing arrow.
- Skew acceptance:** Set to "From 1 to 5" with minus, 1, and plus buttons.
- Double-sided:** Labeled "For double-sided printing". It has a dropdown menu currently showing "Side B" with an upward arrow.
- Radio buttons:** Below the dropdown are three radio buttons: "Off", "Side A", and "Side B". The "Side B" radio button is selected.
- Buttons:** At the bottom right are "Cancel" and "Continue" buttons.

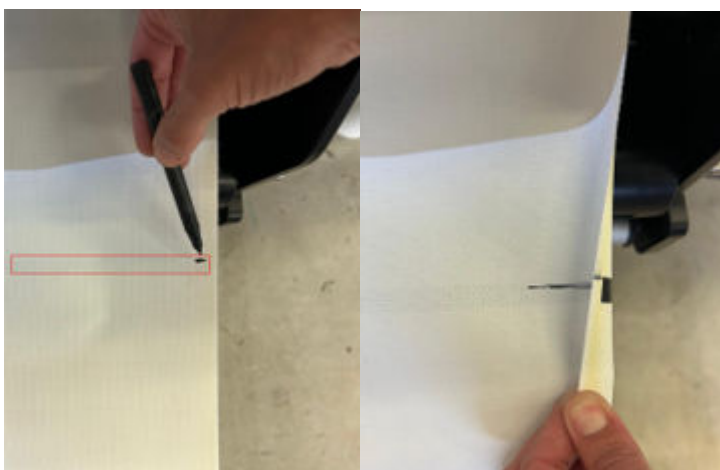
 **IMPORTANT:** If using automatic loading, do not advance the media after the process finishes. The printer searches for the fiducial at the end of the process, and advancing the media will cause a loss of registration. Media attachment is performed automatically during printing.

4 Load Media Side B - Manual

This section explains how to reload the media for side B printing using a manual load and how to avoid losing the fiducial when starting the first plot.

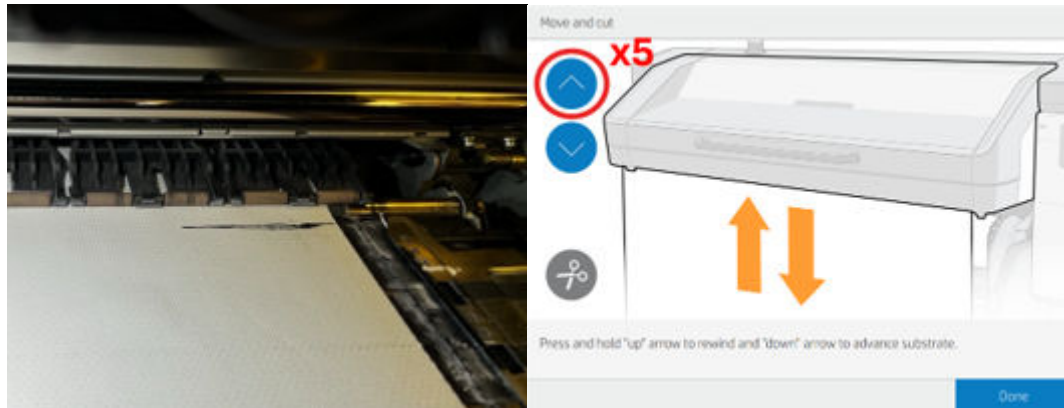
Load Media Side B - Manual

1. Before starting the loading process, use a marker pen to mark on side B the position of the fiducial printed on side A.

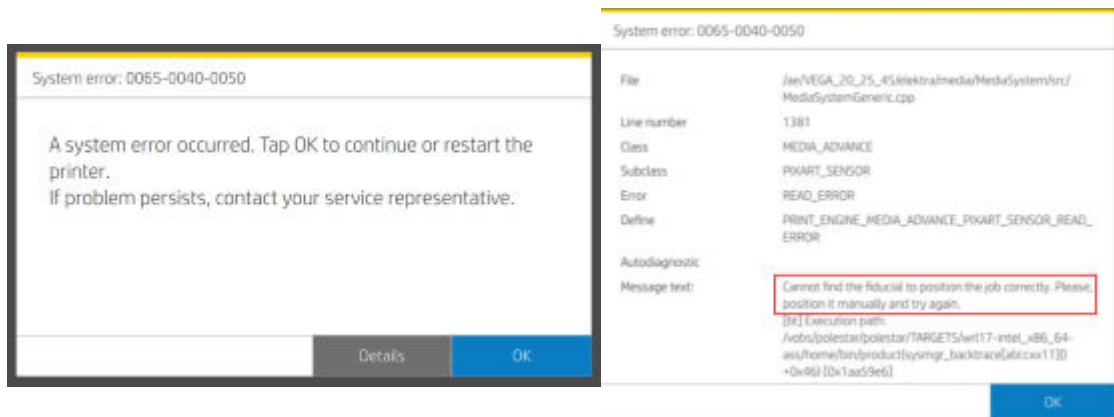


2. Follow the loading procedure shown on the front panel.

- Once the loading process is complete, move the media backwards until the fiducial mark is positioned immediately in front of the pinch rollers. When it is aligned with the pinch rollers, press the **Move media backwards** button five times.



- If you did not follow the **Manual Load** procedure on side B, and the registration line is ahead of the OMAS and cannot be detected, the front panel displays the following message:

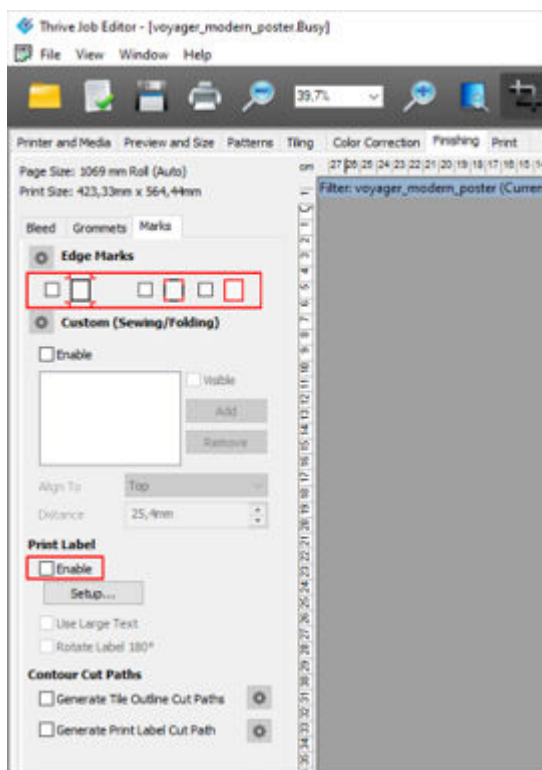


5 ONYX 24 – Print Side A

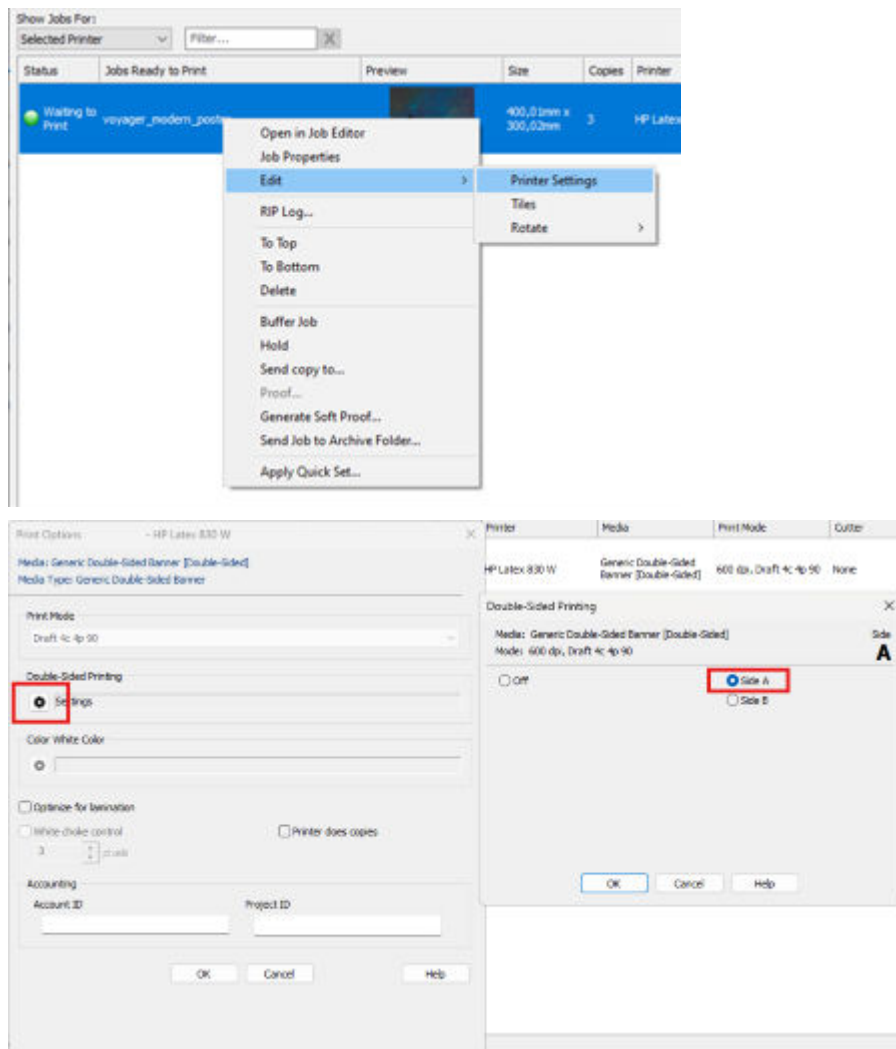
This section explains how to configure and print Side A using ONYX 24.

ONYX 24 – Print Side A

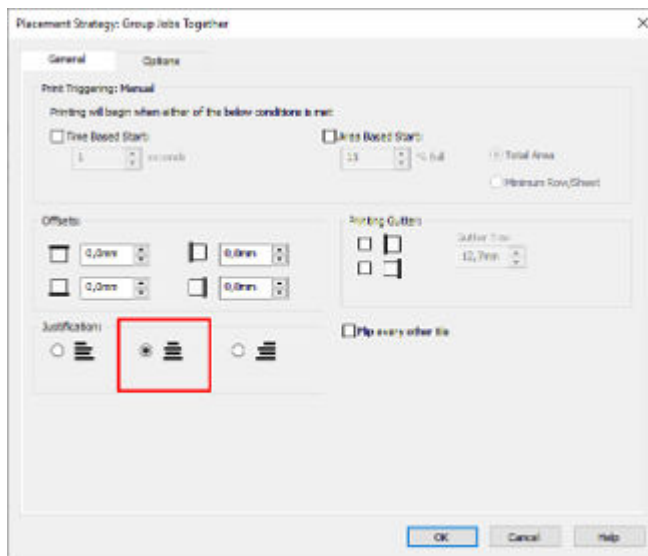
1. Open job in **Job Editor** and select media, printmode, size and desired copies.
2. In the **Finishing** tab, make sure that there are no edge marks and that print label marks are disabled, as they can cause misregistration in the media-advance direction



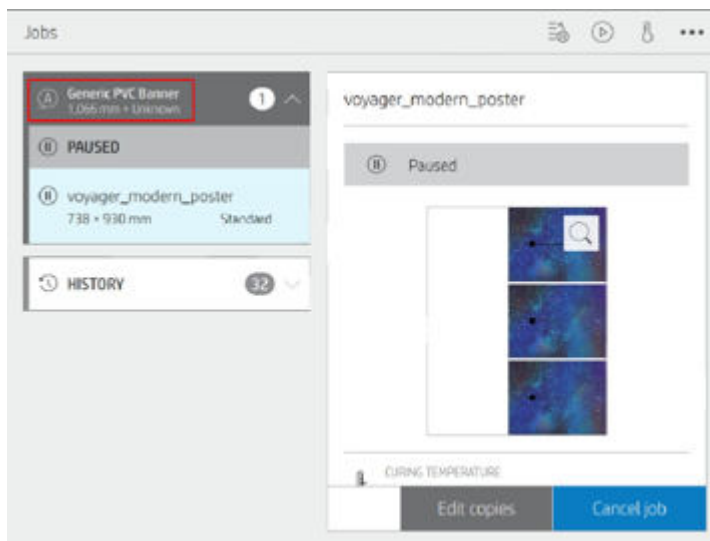
3. In the Onyx job queue, right-click on the job and go to **Edit > Printer Settings** and under the double-sided icon select **Side A**.



- Once the job has been configured, select the job to be centered on the media in the **RIP Placement** menu.



- Print the job. The job appears in the printer job queue as **Side A**.



 **IMPORTANT:** Once the job has finished printing, locate the fiducial line in the print zone. This line is used to register the job position when printing **Side B**.



NOTE: Cut the media. There will be an automatic large advance before cutting to provide enough material to load side B.

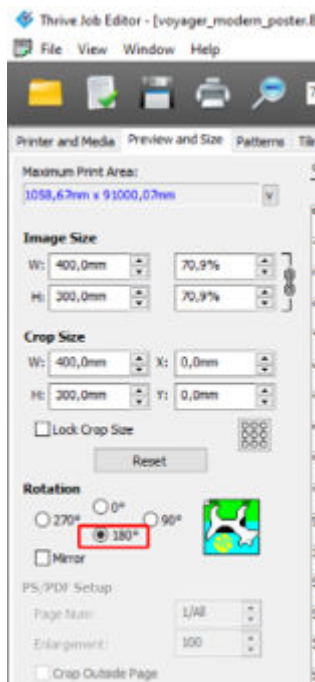
6 ONYX 24 – Print Side B

This section explains how to configure and print Side B using ONYX 24.

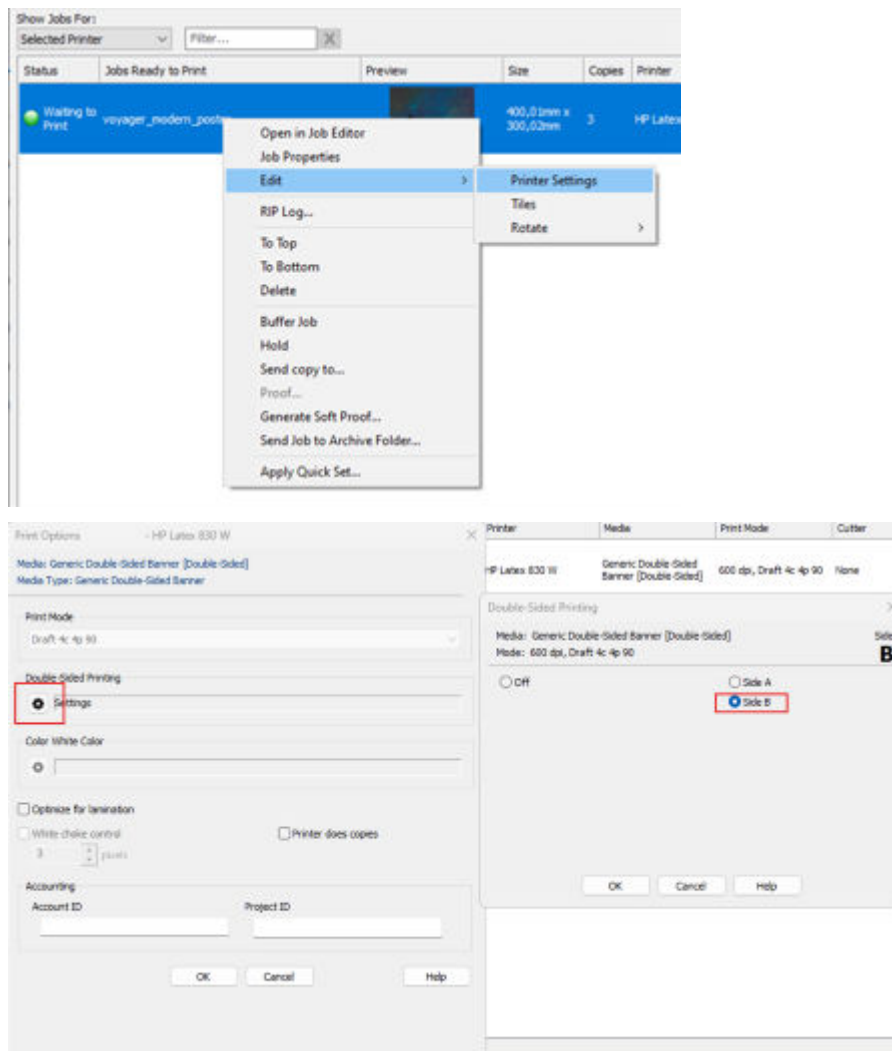
ONYX 24 – Print Side B

1. Repeat steps 1 and 2 from “PRINT SIDE A” [here on page 8](#)

 **IMPORTANT:** Rotate the images on side B by 180° as required, depending on the orientation and design of the plot printed on side A.

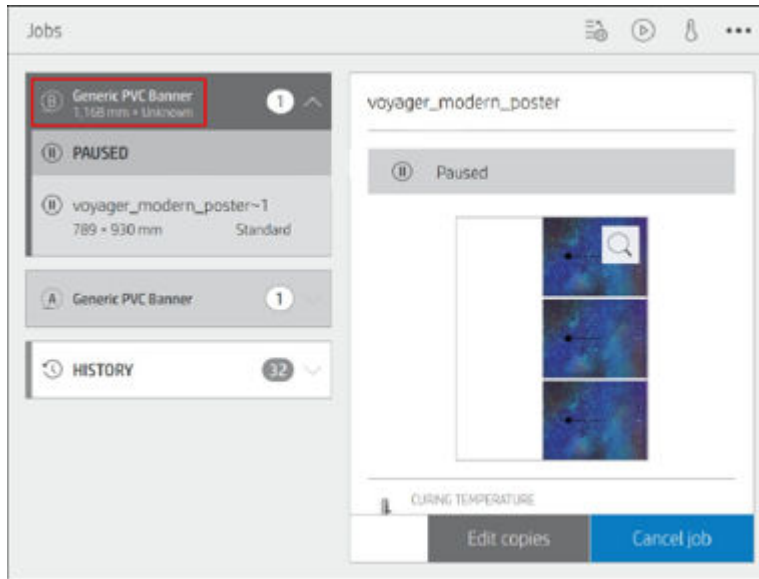


2. In the Onyx job queue, right click on the job and go to **Edit >Printer Settings** and in the double.side icon select **Side B**.



 **NOTE:** Make sure that the alignment is still centered and was not modified after printing side A.

3. Print the job. The job arrives in the printer job queue as **Side B**.



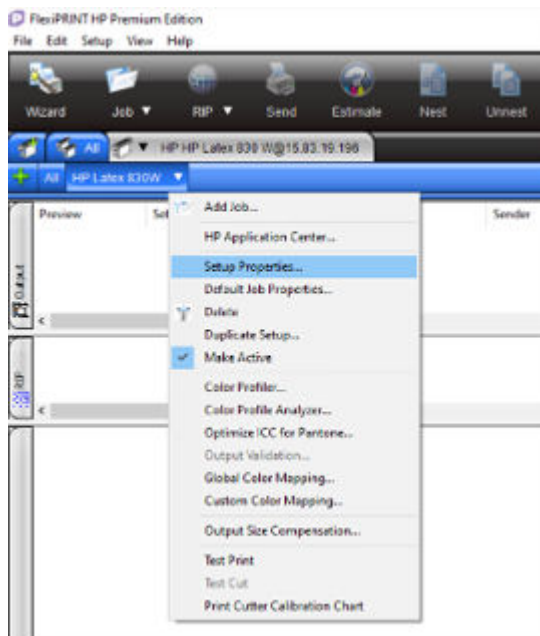
4. When printing starts and the leading edge reaches the take-up reel, attach the media to the core and turn the take-up reel hub to enable the winding.

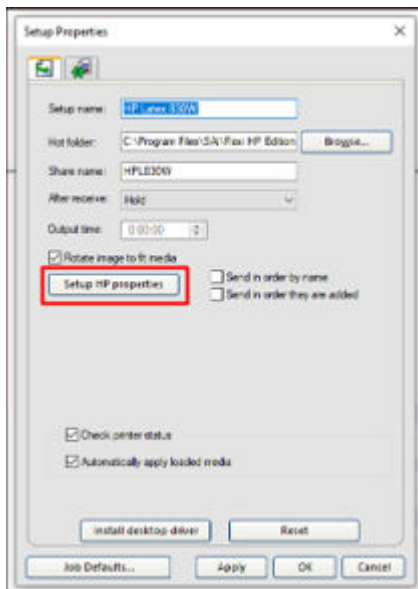
7 Flexi SAi 24 – Double-sided printer configuration

This section explains how to configure Flexi SAi 24 for double-sided printing.

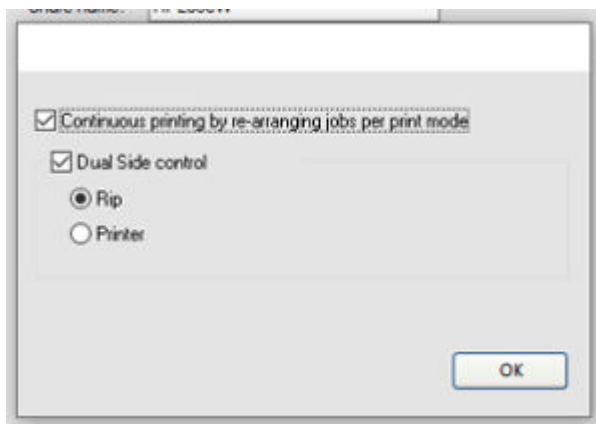
Flexi SAi 24 – Double-sided printer configuration

1. Go to the printer tab on the top bar. Right-click and go to **Setup Properties** and then **Setup HP Properties**.





2. In the next window, enable the **Dual Side control** option with the **Rip** selection activated.



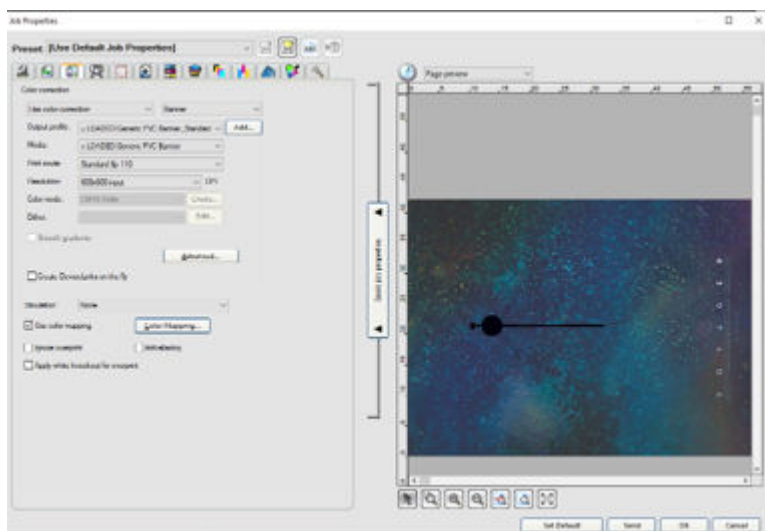
NOTE: When Dual Side Printing is enabled, only supported media from the Disposables family can be used for double-sided printing from the RIP. To simplify switching between modes, create a duplicate printer in the RIP and configure one for Dual Side Printing and the other for Single Side Printing.

8 Flexi Sai 24 – Print Side A

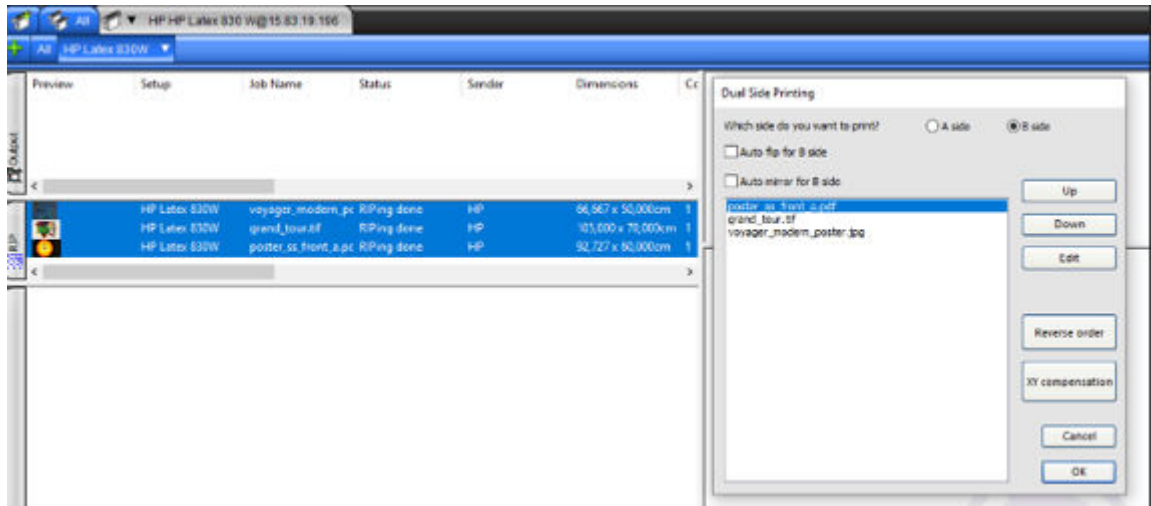
This section explains how to configure and print Side A using Flexi Sai 24.

Flexi Sai 24 – Print Side A

1. Open the job in **Job Properties** and select media, print mode, size and desired copies.
2. Make sure that there are no margins and that label marks are deactivated, as these would produce misregister in media advance direction.

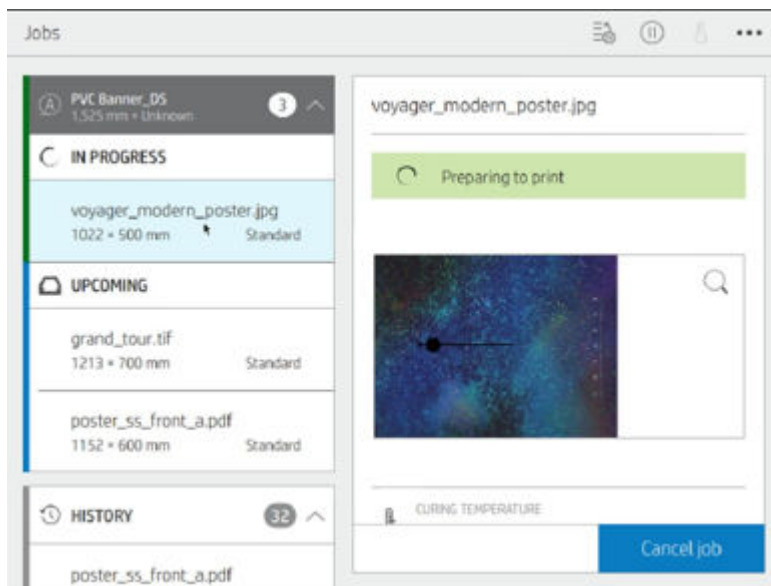


- Once the job has been sent, the dual side printing window appears.



- In this case, select **A Side**. Sending multiple jobs can modify their order. The printer adds a fiducial at the end of each plot, which will be read before printing the plots during printing on side B.

IMPORTANT: Do not activate **Auto flip** or **Auto mirror** if you want the images to have the same orientation on both sides.

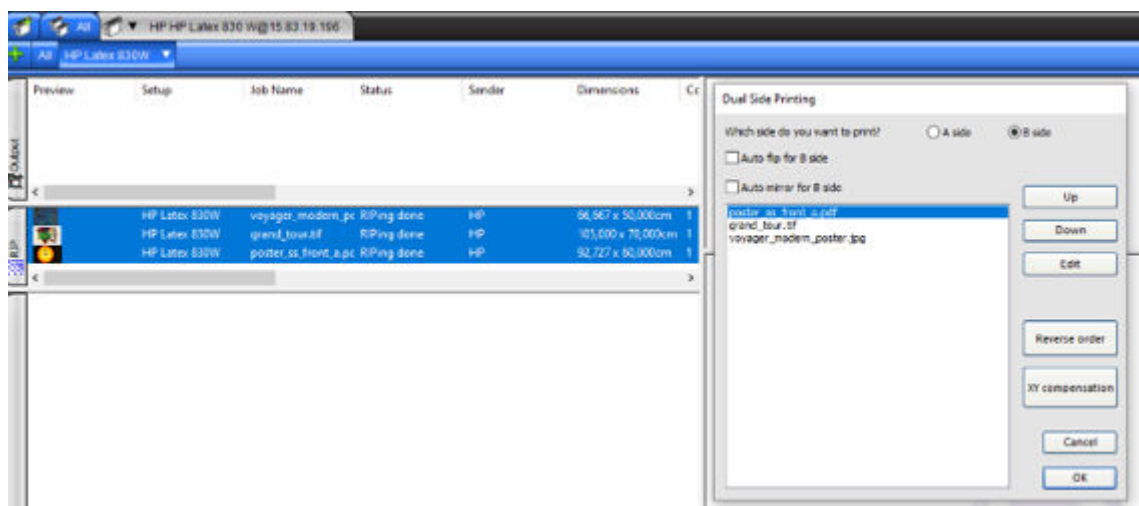


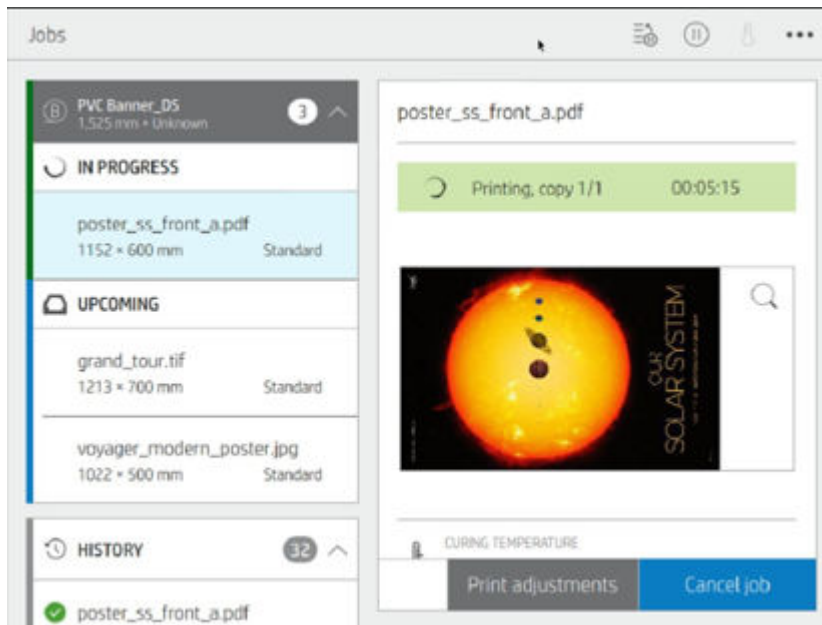
9 Flexi Sai 24 – Print Side B

This section explains how to configure and print Side B using Flexi Sai 24.

Flexi Sai 24 – Print Side B

1. Open job in **Job Properties** and select media, printmode, size and desired copies.
2. Make sure there are no margins and that label marks are deactivated, as they can cause misregistration during media advance.
3. When sending the job, the dual side printing window reappears. In this case, select **B Side**. The queuing and rotation of the printed plots will be automatic.





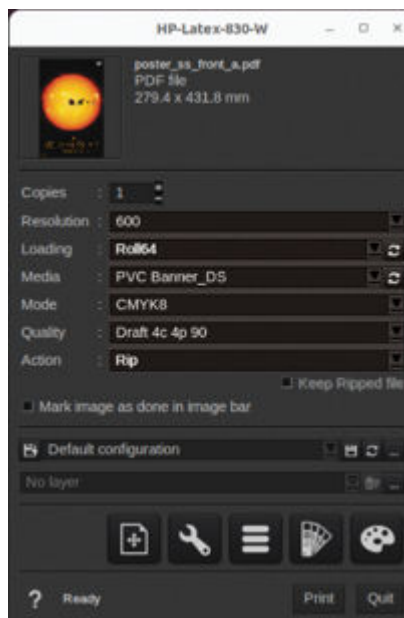
4. At the beginning of each plot, the printer reads the fiducial printed on Side A. It then cures the plot, searches for registration at the next fiducial, and starts printing.

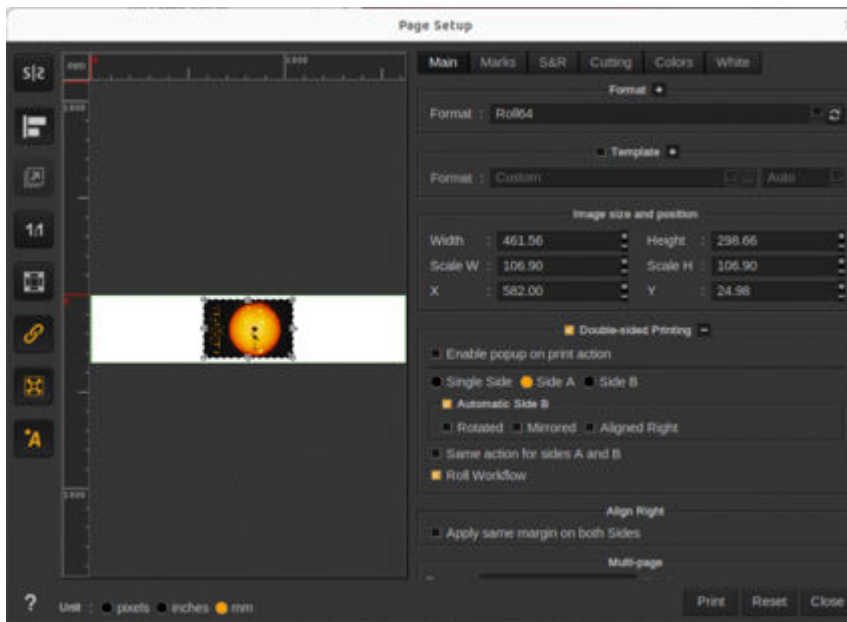
10 Caldera RIP

This section explains how to create and print double-sided jobs using Caldera RIP.

Caldera RIP

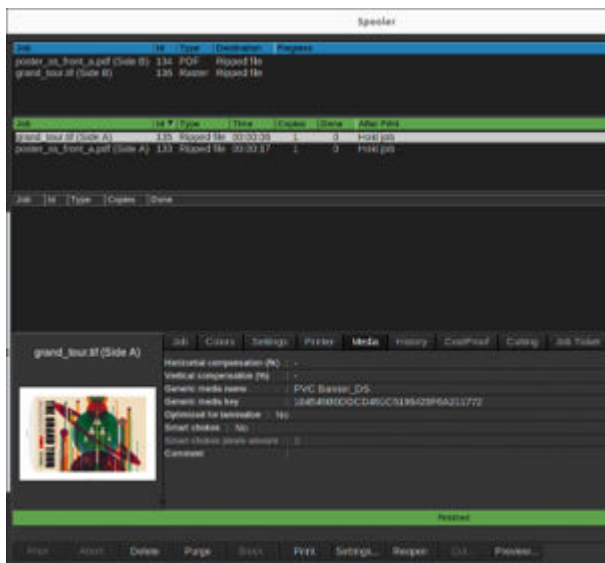
1. After loading the media as side A and configuring the job with the desired print mode and settings, go to **Page Setup** and enable the **Double-sided** printing option. In this example, the same image is printed on both Side A and Side B across two plots. Enable the **Automatic Side B** and **Roll Workflow** options to automatically generate the jobs for both sides.

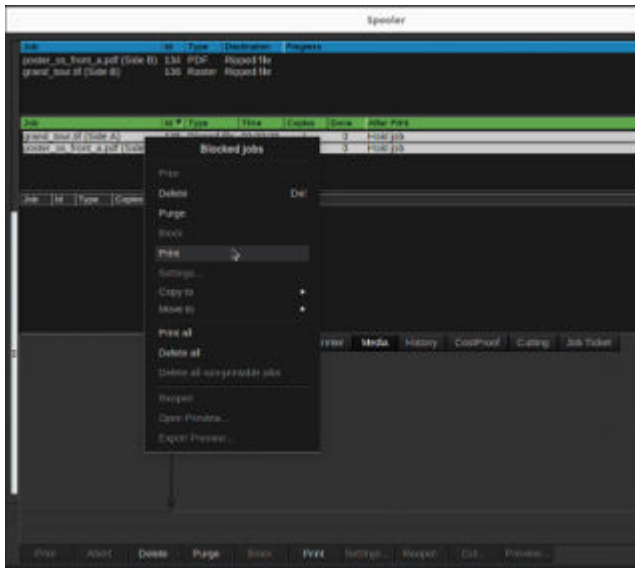




NOTE: Automatic side B option automatically generates side B (with or without rotation) that will be sent to the printer after side A. If roll workflow option is set, then side B will wait in the spooler until the user selects **Print**.

2. In the spooler queue, you will find the jobs generated for side A and side B. Send the jobs generated as side A to print.





3. Once the desired jobs have been printed, unload the media, reload it with **Side B** facing up, and send the corresponding **Side B** jobs.



NOTE: When sending multiple consecutive jobs, send the side B jobs in the reverse order of the side A jobs. For example, if the side A jobs are sent in descending ID order, send the side B jobs in ascending ID order.

Advance Factor Compensation

To maximize side-to-side accuracy, we recommend calculating an Advance Factor Compensation for each side. Some substrates may shrink during the printing of side A due to thermal deformation. Since side B is printed on media that has already been affected by heat, adjusting its Advance Factor Compensation can compensate for this shrinkage and improve alignment between both sides.

Load Roll Side A	Rip Side A	Rip Side B	Print A	Load B + Print B
- Double Sided Substrate - Set Side A	- No margin, no marks - Printer Settings: Side A - Job Settings: Centered	- No margin, no marks, centered - Printer Settings: Side B - Rotate 180°	- Print - Cut - Unload	- Load Roll - Double sided substrate - Set Side B - Print