

# Two-Sided Printing Instructions

The following instructions are tailored for the HP5000 DesignJet; however, they can also easily be applied to the HP2000/3000 DesignJets.

## 1. Prepare artwork

- The graphic to be printed must have two separate ripped or prepared versions.
- One version should have no rotation (or 0° rotation).
- The second version should be flipped vertically (or 180° rotation).
- Note: With no rotation selected, most programs print head first or upside-down when viewing from the front of the printer.

## 2. Prepare printer for Side One imaging

- Turn automatic cutting off by selecting: "Printer Setup Options" / "Device Setup" / "Cutter = Off".
- Load 2-sided banner roll media onto printer by selecting: "Load" / "Unload" media button.
- Choose media setting – most likely "Heavycoated Paper".
- If printhead calibration occurs, allow printer to calibrate.
- Cut off calibration patches by overriding the automatic cutting by selecting: "Media Options" / "Formfeed and Cut".
- Advance media a minimum of 12 inches by selecting: "Media Options" / "Move Media". (This extra media will be the tail end of Side Two.)
- Mark on printer or make note of the exact point of the lead edge. (You align the lead edge on Side Two with this reference mark.)

## 3. Print Side One of the graphic

- Print the graphic with the 0° or no rotation.
- Once the graphic is printed, and before cutting, measure the distance between the lead edge of media and the start of the printed graphic.
- Take that measurement (a minimum of 12 inches) and advance media to that distance plus a little extra.
- Make note of the orientation of the graphic; this will be exactly how you will feed it for Side Two! (Whatever part of the graphic printed last will feed into the printer first for Side Two.)
- Now cut off the printed graphic by selecting "Formfeed and Cut", and unload the unimaged roll.
- Do not shut off printer or change media setting between prints.

## 4. Prepare graphic for Side Two imaging

- Now take your measurement and trim the tail end of Side One exactly to that distance. (The cut must be perpendicular to edges of media; use cutting machine, if possible.)
- You now have a one-side-printed graphic with an unimaged leader that exactly matches the unimaged tail.

## 5. Load printer for Side Two imaging

- Take graphic to printer and orient exactly as noted earlier, typically with the printed side facing you and upside-down.
- Load graphic by selecting "Load" / "Unload" media button.
- When printer asks you "Roll" or "Sheet feed", select "ROLL".
- After printer accepts load, select the same media you did for Side One printing (Heavycoated Paper).
- Using the "Media Option" / "Move Media" selection, either forward or reverse media's lead edge to the mark noted earlier from Side One.

## 6. Print Side Two of graphic

- Because of the lead edge mark, you now have a lead edge on Side Two that matches Side One. Having never flipped your print horizontally, you have the same right-hand edge for both sides. Also you have enough media on the trailer so the printer will not run out of media.
- Now print the second ripped file that is 180° flipped vertically from Side One.
- Once printed, advance the rest of the banner out.
- You will now have a finished, two-sided banner with an alignment tolerance of  $\pm .375$ ".