

# HARLEQUIN FOR FLEXO

Matching the quality of offset printing has always been the goal for flexo. With the Harlequin RIP<sup>®</sup> offering a range of features to support flexo printing, including trapping, step and repeat, color management and screening, you have a high-quality, fast, yet affordable solution for driving flexo platesetters.

The Harlequin RIP is compliant with industry standards and compatible with PDF creation tools. It's also extremely flexible: OEMs and ISVs can deploy the Harlequin RIP purely as a RIP and rebrand it with their GUI.

Flexo printing is supported by both the Harlequin Host Renderer SDK and the Harlequin MultiRIP. Find out more by contacting: [sales@globalgraphics.com](mailto:sales@globalgraphics.com) or visit [www.globalgraphics.com](http://www.globalgraphics.com).

## Harlequin Cross Modulated Flexo (HXMFlexo) Screens<sup>™</sup>

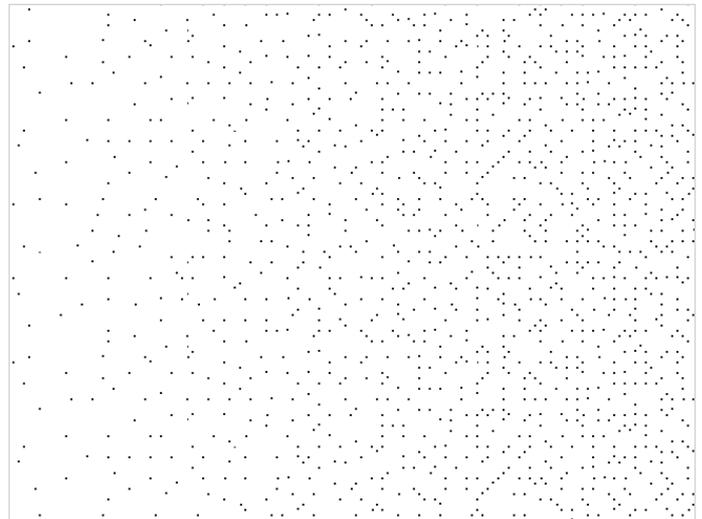
Global Graphics is at the forefront of screening technology and our specially designed Harlequin Cross Modulated Flexo (HXMFlexo) screens provide the best print quality comparable to offset, achieving outstanding results in the highlight areas of images, such as tones close to white or skin tones.

With HXMFlexo you can achieve smooth gradations even in high-key images, often without the need to use the built-in support for bump-up curves in Harlequin RIPs, and select from a wide choice of screen resolutions, rulings and minimum dot sizes to meet the needs of a wide range of flexo printing markets.

HXMFlexo screens also give smooth, noise-free flat tints while retaining fine detail in highlights and shadows. They allow you to print screens at a higher line ruling than would normally be considered reliable, producing pin-sharp images and helping to overcome common printing imperfections like visible rosettes and moiré.

## Flexo screen angles

Harlequin has an optimized screening engine to enable accurate, moiré-free AM halftones at flexo angles.



*HXMFlexo maintains a minimum dot size in the highlights, reaching even very low tonal values by completely removing dots instead of shrinking them to sizes that cannot be held on press. A wide range of screens with different minimum dot sizes are available for many different flexo applications.*

## Not just CMYK

Harlequin can happily be used with custom process color sets and with up to several dozen spot colors per job. Screen angles can be set for each color independently.

## Object-based screening

Harlequin can be configured to honor screens selected within a submitted PDF file, including spot names not directly supported in the PDF Reference, and those using Esko proprietary extensions. An additional look-up table allows mapping from spot names specified in the PDF to locally available equivalents when there is a miss-match.

## ... even when using live PDF transparency

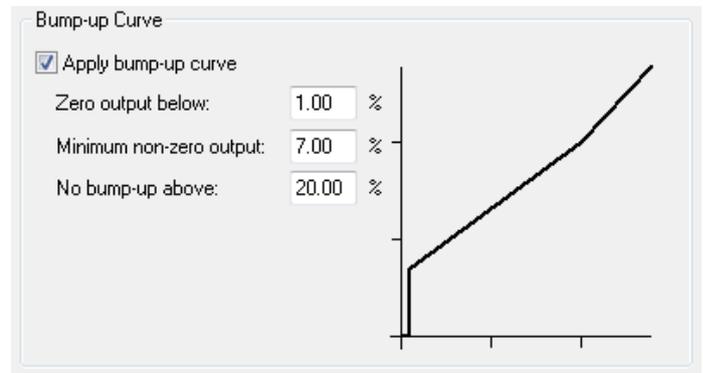
The PDF Reference specifies that "the default halftone" for a job should be used for all areas using live PDF transparency, but that makes it very difficult to ensure accurate rendition of difficult objects such as drop shadows. The Harlequin RIP therefore allows users to specify that screens selected within each object in the PDF file should be used instead, allowing clean reproduction of drop shadows and other uses of transparency.

## Automatic selection of calibration curves

In many cases a different calibration curve must be used for each combination of screen shape, frequency, etc. When the screen to be used for a job is specified in the submitted PDF file, the Harlequin RIP can automatically select the correct calibration set from a pre-configured group to ensure the highest possible color reproduction quality on press.

## Controls for bump-up curves

With Harlequin RIPs pre-press operators have the ability to 'bump-up' curves at the highlight end to ensure clean reproduction of near-white tones.



*Bump up curves in Harlequin's calibration technology help pre-press operators achieve smooth gradations even in high-key images.*

## Push Calibration API

A push calibration API allows workflow-level color control systems to install and update calibration curves and groups of curves within the Harlequin RIP. The API supports both process and spot colors.

## Why choose Harlequin?

The Harlequin RIP is the industry's most powerful print engine and your first choice to drive your flexo press. For more detailed specifications, see our Harlequin MultiRIP datasheet.



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