HARLEQUIN® multiRIP™ v12.1 — Feature introduction

| Server RIP v9.0 (2011)	MultiRIP v10.0 (2013)	MultiRIP v11 (2016)	MultiRIP v12 (2018)	MultiRIP v12.1 (2019)	Features
PDF 1.7			PDF 2.0	BMP	Native PDF, PostScript, EPS, TIFF, JPEG, XPS and BMP interpretation
	●				PDF transparency controls for flexo
●					PDF/X
			●		ColorPro in-RIP color management
PANTONE Plus		PANTONE Goe & XCG		M1 and M2	Pantone support
		●			Harlequin Color Editor
		Contour export		PDF processing steps	Technical separations
●	Measurement data				Push calibration API
External mode	Harlequin VariData™	Position-independence and auto HVD	Faster	Extended hints	PDF/VT and VDP optimization
			●		Variable overlays and in-RIP barcode generation
●					TrapPro in-RIP trapping
●					Font emulation
●					InRIP Simple Imposition
Low-res HXM	HXM for flexo	HDS for 7 colorants	Non monotonic	Seamless	Screening
●					PDF raster output for soft-proofing of RIPped pages
	●				64-bit RIP build
	Transparency compositing	Harlequin Parallel Pages™			Multi-threading
		●			Software (dongle-less) licensing
		●			Time-limited licenses
RIP upgrades ●					Try before you buy
Server 2008 r2	Windows 8 / Server 2012	Windows 10	Server 2016	Server 2019	Windows support

New in Harlequin MultiRIP 12.1

Support for ISO 19593, PDF Processing Steps

Harlequin can be configured to ignore technical separations such as die and fold lines, dimensions etc (or to render them on their own). But that requires that the PDF be examined and the RIP configured specifically for the spot names used in that job. Even just in English that might be 'dieline', 'Cut', or 'CutContour' etc.

We've added support for ISO 19593-1, which provides a standard way to identify technical content. From Harlequin 12.1 you can say "just give me the page content with no processing steps", or "just give me structural processing steps and nothing else", without needing to know what name the creator used for each item.

This will be especially useful for labels, packaging, wide format and some industrial print sectors.

Standardized metadata: Structural/Creasing

Standardized metadata: Structural/Cutting
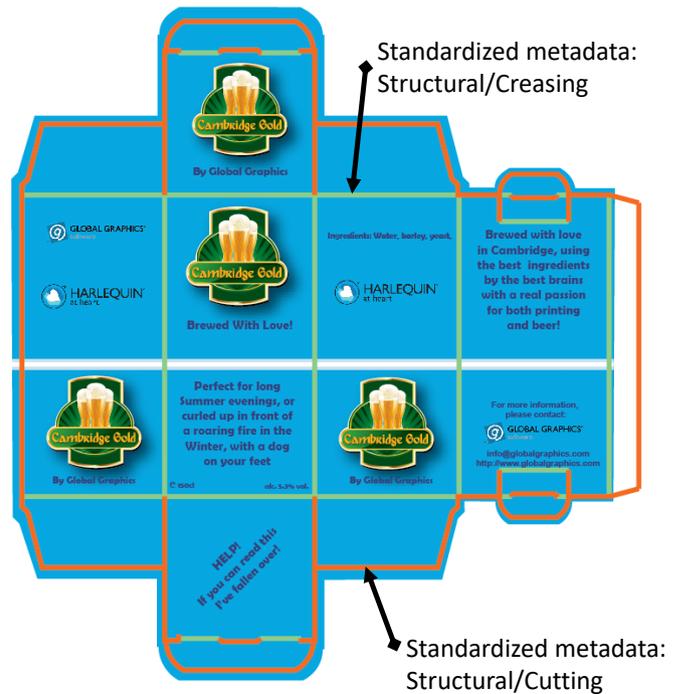
PDF Processing Steps promises the ability to control technical marks without needing to analyse each file and create a different setup for each job

Seamless screening

The rich screening options in Harlequin have been extended in version 12.1, adding seamless screening to prevent artifacts when the same screened raster is printed multiple times along the substrate without gaps in the graphics. It ensures that the halftone aligns exactly from the end of each copy to the start of the next.

This is needed in industrial print, such as textiles and laminate flooring, where very long lengths of continuous output are printed without breaks. It's also beneficial in labels and packaging for repeats that are not simple rectangles, e.g. for staggered imposition of hexagonal or rhomboid-shaped labels. It will be most valuable for flexo sleeves, or for non-publication gravure.

Seamless screening can be applied to all screening types where the screening is applied by Harlequin itself, including spot function, threshold and tile-based.

Without seamless screening

With seamless screening
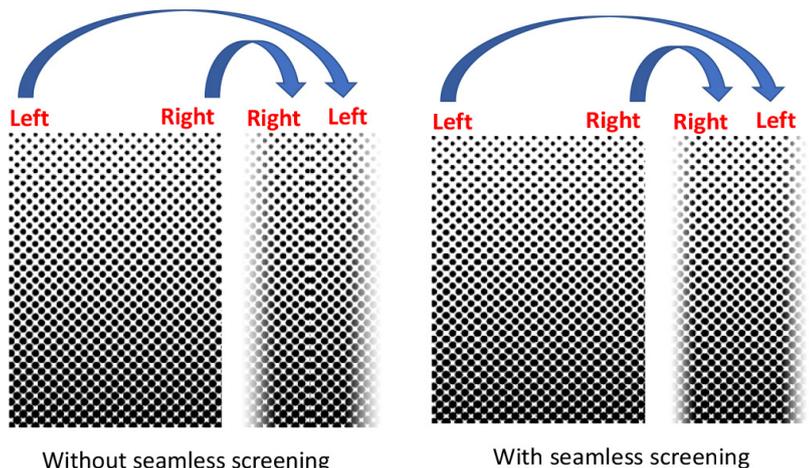
When the screened raster from Harlequin is imaged onto a flexo sleeve or gravure cylinder the two sides must align seamlessly, without a visible join in the halftones that would cause a 'zip-line'

These features are not directly exposed in the Harlequin MultiRIP user interface; ask your OEM supplier how you can configure them in their system.

HARLEQUIN® multiRIP™