InSoft

Smart Nesting

Accelerate your workflow with smartest & fastest imposition and ganging engine in the world of print !

Realize higher profits with improved efficiency:

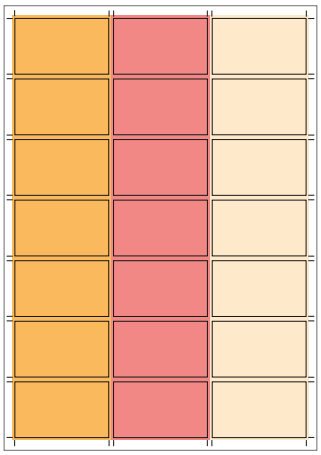
- One software for all kinds of print products & printing devices.
- Gang 1000s of jobs optimizing paper, printing, and finishing.
- Accurate, stable & predictable.
- Handsfree automation.

www.insoftautomation.com

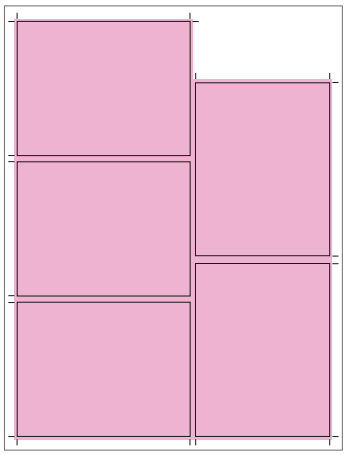
INJECT SPEED INTO YOUR IMPOSITION AND GANGING

- Rapid layout creation for different print devices.
- Increase yield with reduced paper wastage and lesser press runs.
- Automatically create ganged layouts for your entire schedule.
- Rule based planning to generate layouts as per finishing equipment.
- Gang rectangular or die-cut jobs with same ease.
- Support for QR code, datamatrix codes, bar codes and text annotation marks.

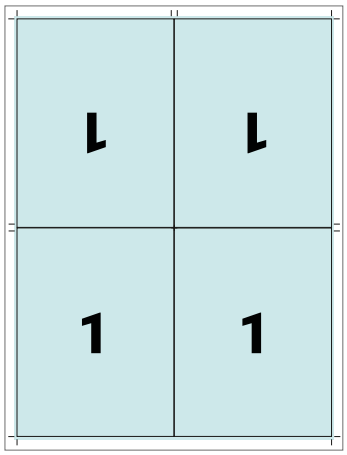
Some of the nesting methods and more.....For smooth transition to finishing operations like cutting, tracking, sorting, packing and dispatch.



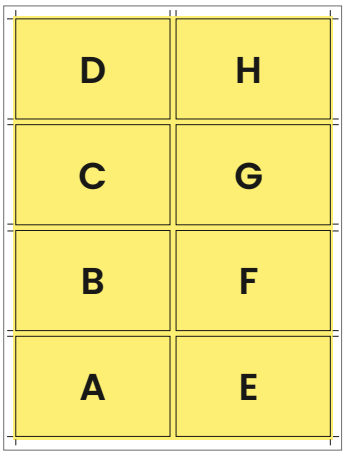
Uniform grid nesting with single job per column



Automatic Dutch Imposition



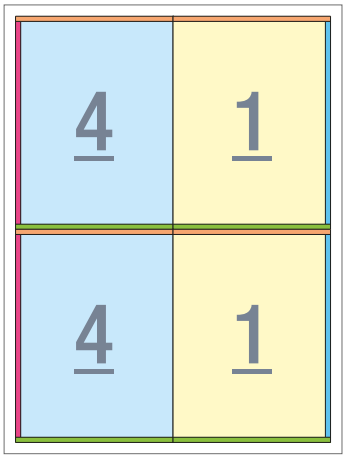
Inner dead cuts with outer bleed



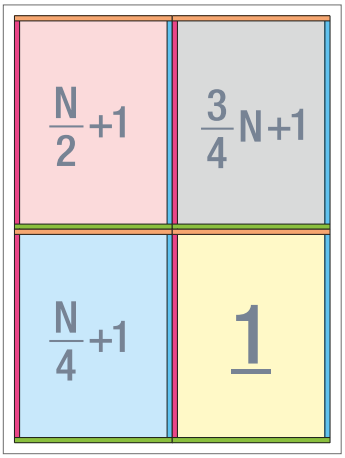
Sequential placement of jobs on layout

Dynamic Imposition of Bound Jobs

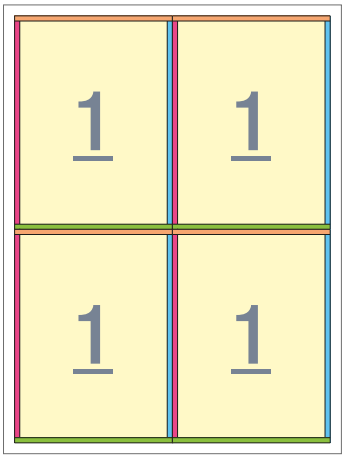
COMPLEXITY SIMPLIFIED by Imp software in book imposition, be it a simple saddle-stitch booklet, perfect bound book or a complex thread sewing bound book, software offers full automation with template-free imposition!



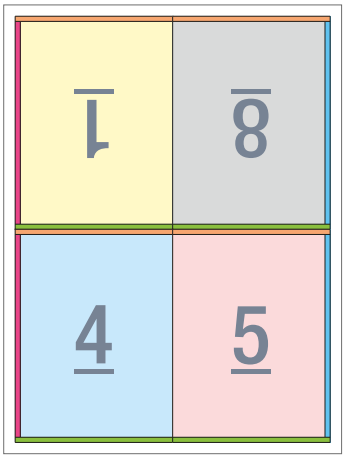
N-Up imposition for booklets



Conventional “Cut & Stack” for perfect & spiral binding



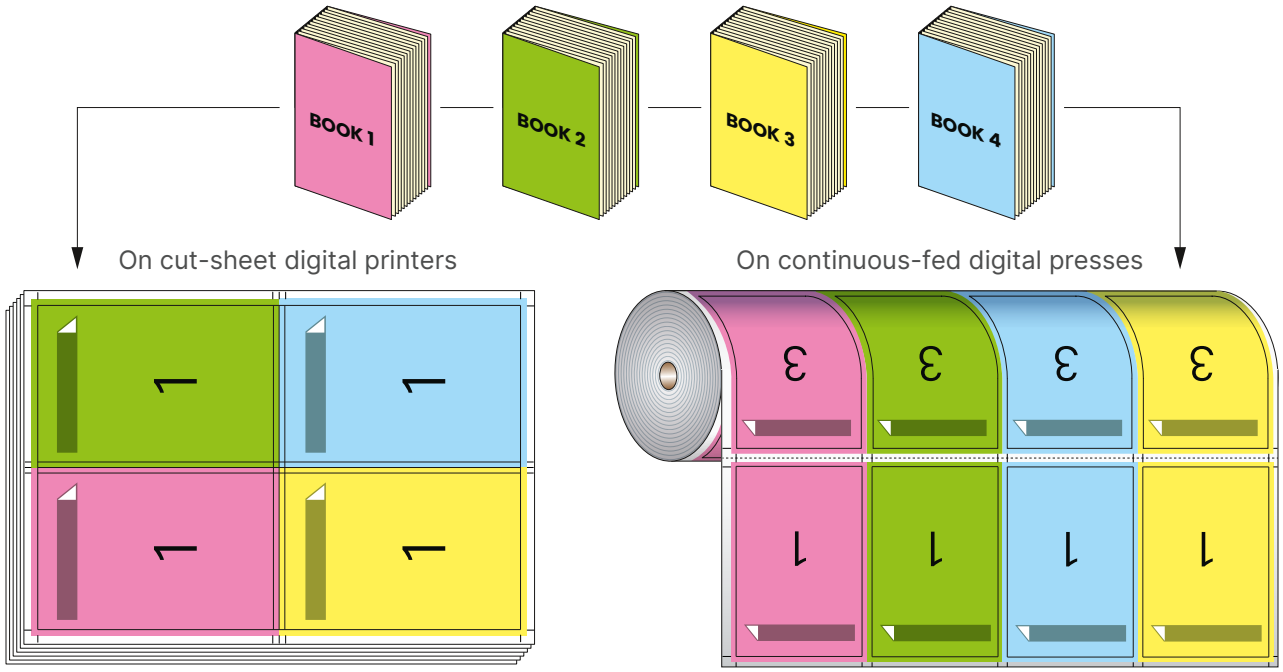
Automated “Cut & Bind” for perfect & spiral binding



Automated folded signature for thread sewing books

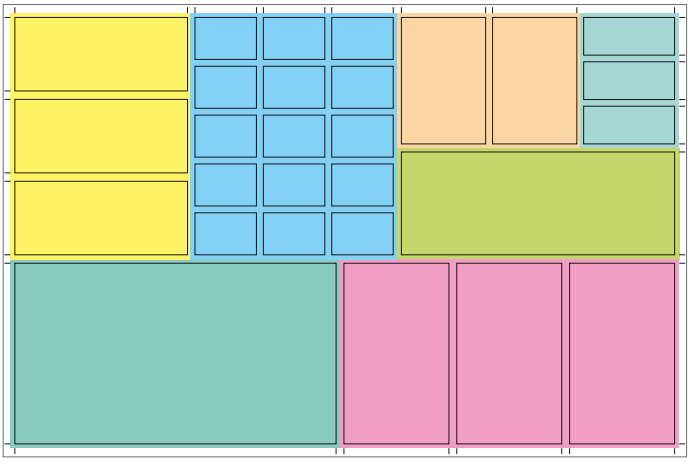
Parallel Printing of Books

This innovative feature dramatically simplifies the complexity in creating imposition schemes where different books of similar sizes and page count are planned together in individual lanes/tracks on the same layout.

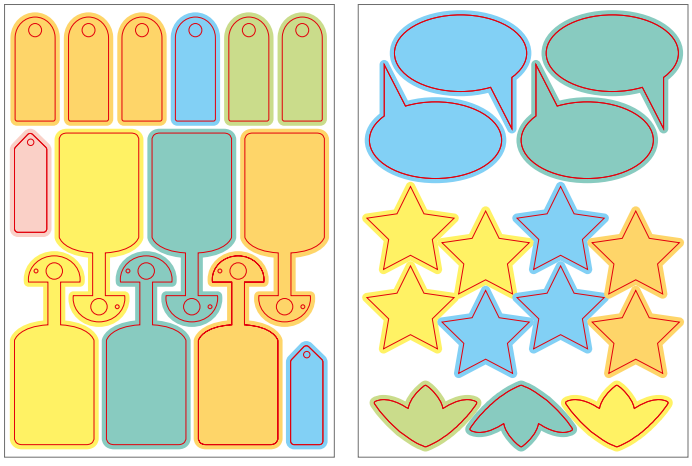


Ganging - Increasing Profits

The smart ganging engine combining jobs of different shapes, sizes, quantities, colors to increase yield and reduce idle time.



Rectangular flatwork ganging



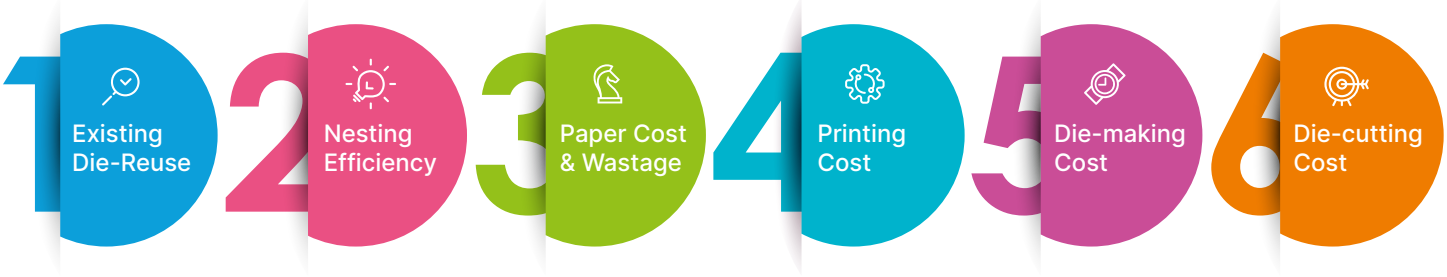
Free-shape jobs ganging

Imp software has reduced the layout planning (ganging & kitting) process at Baesman Group from hours and days to minutes. It has very short learning curve and our staff of six estimators and planners were up and running on it. The Imp software is very flexible. **The layouts planned by our planners and estimators are sent to the prepress department and downstream finishing machines.**

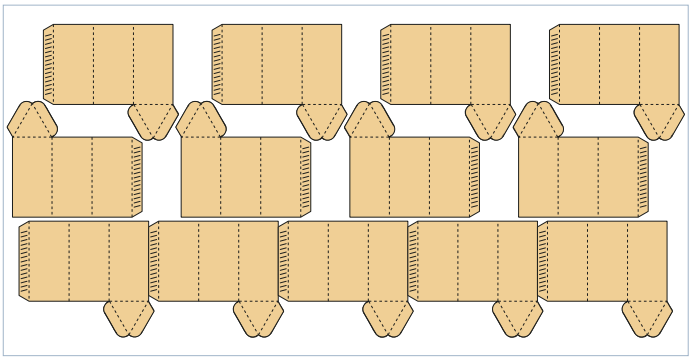
Lance Younker baesman: We get personal. Columbus, Ohio

Packaging Layouts

Holistic optimization. As minimizing overall cost is the goal, the software will consider multiple scenarios to strike the right balance between the independent cost functions mentioned below:

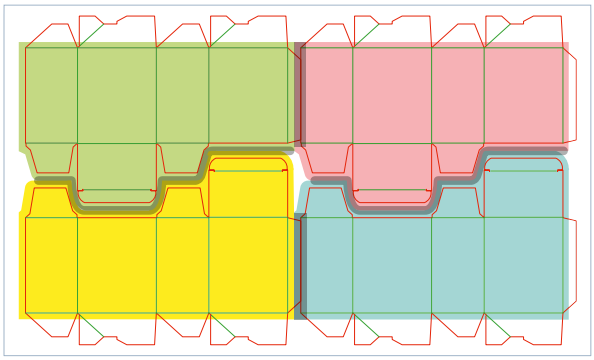


Adaptive Interlocking



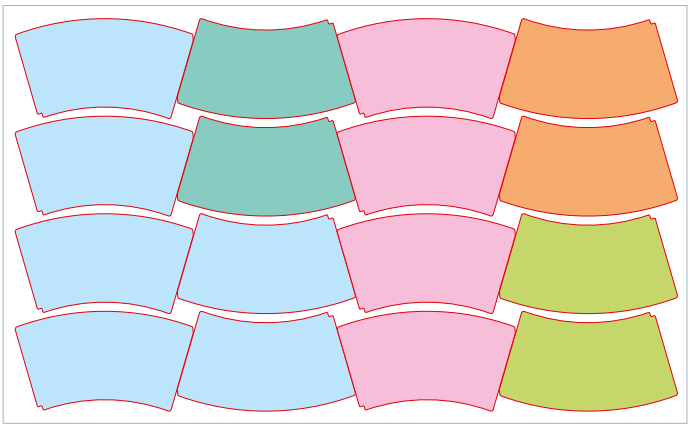
When constrained by sheet sizes or reel widths, software dynamically generates multiple interlocking patterns.

Automated Bleed Resolution



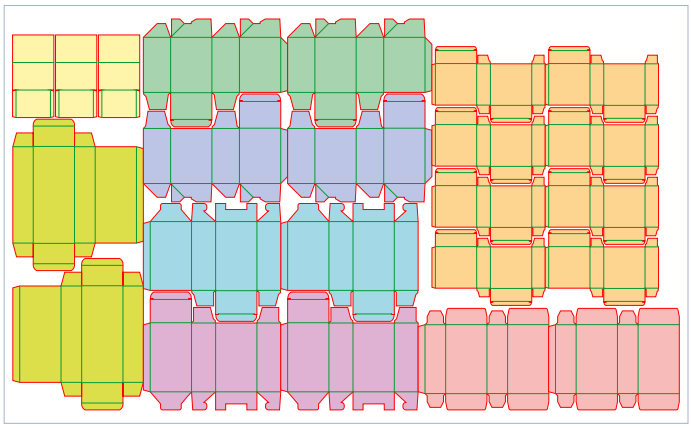
The one & only software to identify and resolve bleeds in the single & double cut regions without human intervention.

Same Die - Multiple Artworks



Automatic calculation of number of die-cavities to be assigned for each version based on copies, inks & coatings.

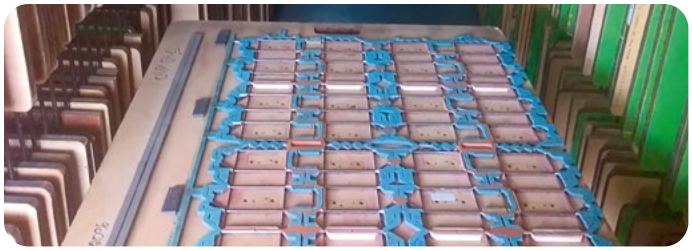
Folding Carton Ganging



Gang 1000s of short run folding cartons to be finished on digital cutting devices.

Are you sure you don't have a matching die for a new order? Does it take hours to find one?

With "Die-Tool Library" feature, a matching die-tool can be searched within seconds using shape scan technology - No metadata required !

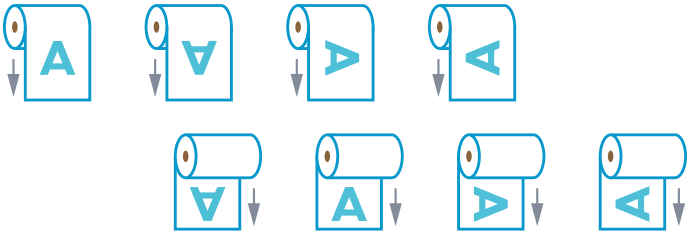


IMP SOFTWARE FOR DIGITAL LABEL PRODUCTION

The challenge to produce and deliver increasing number of SKUs and short runs in demanding time frame ends here.

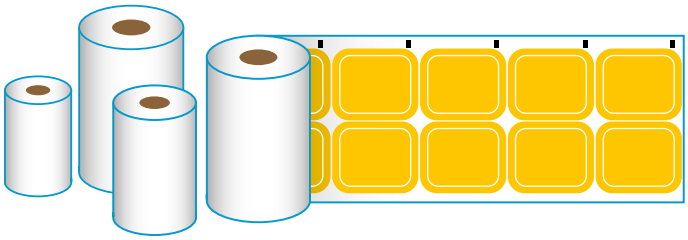
Unwinding Direction of Labels

Define the preferred reel unwinding direction per job and the software automatically orients labels on the layout.



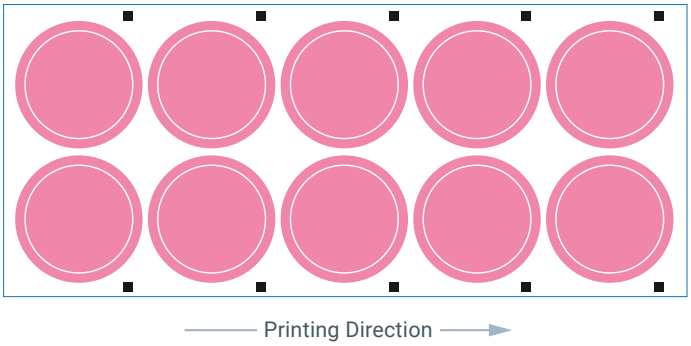
Label Step & Repeat

Software intelligence selects optimal reel width, computes number of ups & lanes as per order quantity.



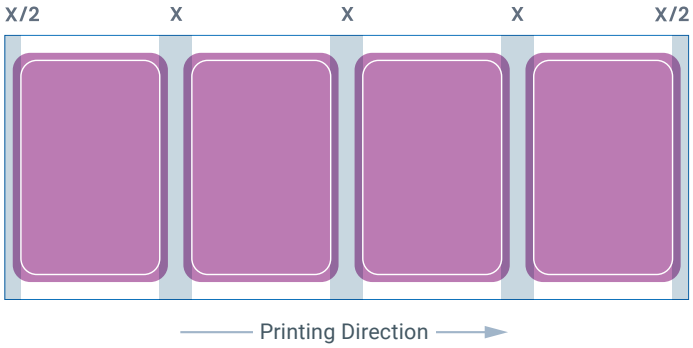
Dynamic Eye Marks

Exercise full control and automation on how eye-marks for registration and finishing are placed on the layout.



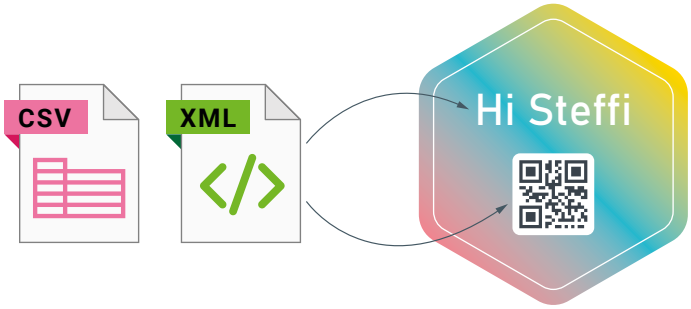
Uniform Gap between Labels

Automated uniform gap between each row on the layout for continuous reel printing and finishing.



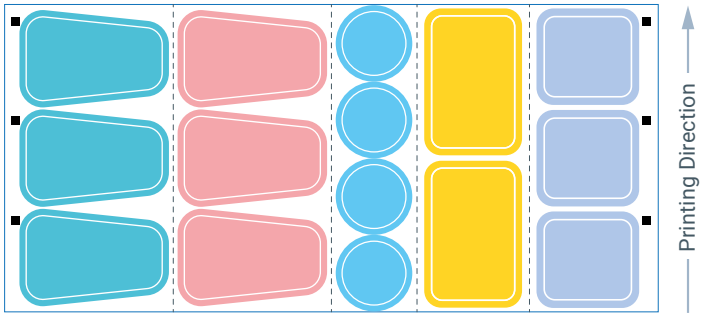
Variable Data

Add personalized QR codes, bar codes & text from CSV or XML file to each SKU.



Lane Planning

Lane ganging optimizing reel width with control on number of lanes as per number of knives on slitting device.



Versioning

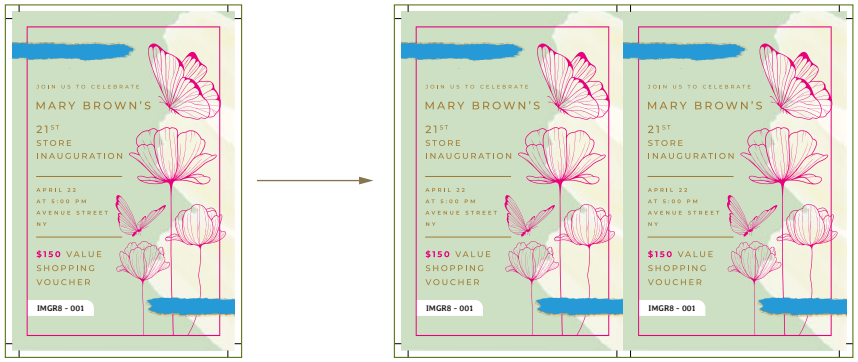
Gang different versions of same label order of different quantities and UPC Codes with complete control on number of lanes and no-mixing of same UPC on same layout.

Ganging

Create combo-layouts of different labels to optimize material, printing and finishing setups - while maintaining equal gap between each label !

Separations for Embellishments

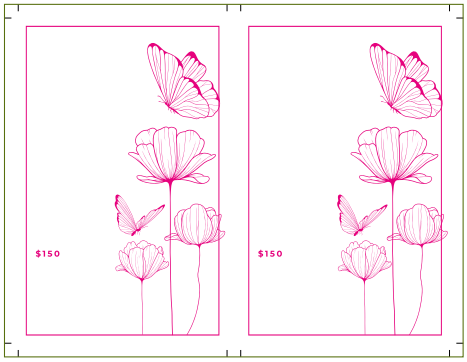
Imp software can export separate imposed layouts for print and embellishment separations such as spot UV, emboss, texture, foiling etc.



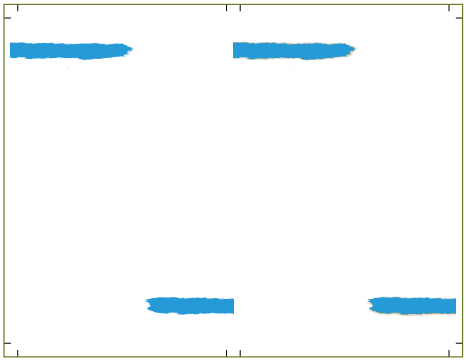
CMYK + Foil + Texture

Imposed layout

Imposed file for Print
(minus Foil and Texture)



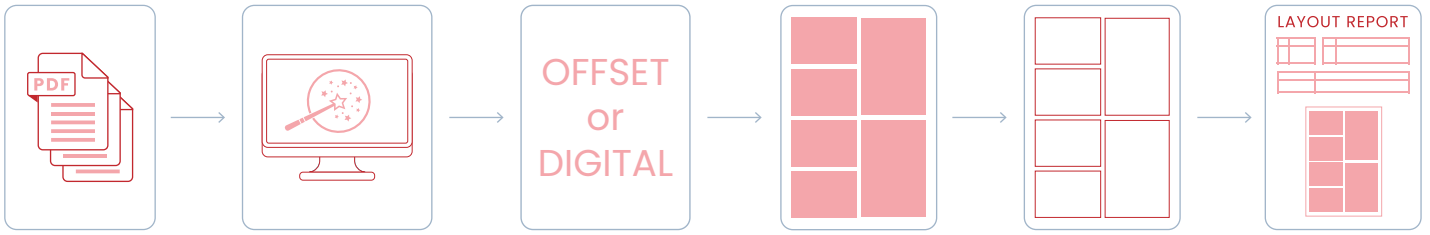
Imposed file for Foiling
(minus CMYK and Texture)



Imposed file for Texture
(minus CMYK and Foil)

LIGHTS OUT AUTOMATION & INTEGRATION

Imp Flow. A hot-folder based software application built on top of Imp software. It leverages the inherent intelligence of the Imp software to provide unparalleled automation in layout planning and imposition.



Input (PDF, CSV, XML)	Imp Flow Unmanned imposition	Cost-based layout planning	File for Print (PDF or JDF)	Cutting File (JDF, PPF)	Layout Reports (PDF, XML, MXML)

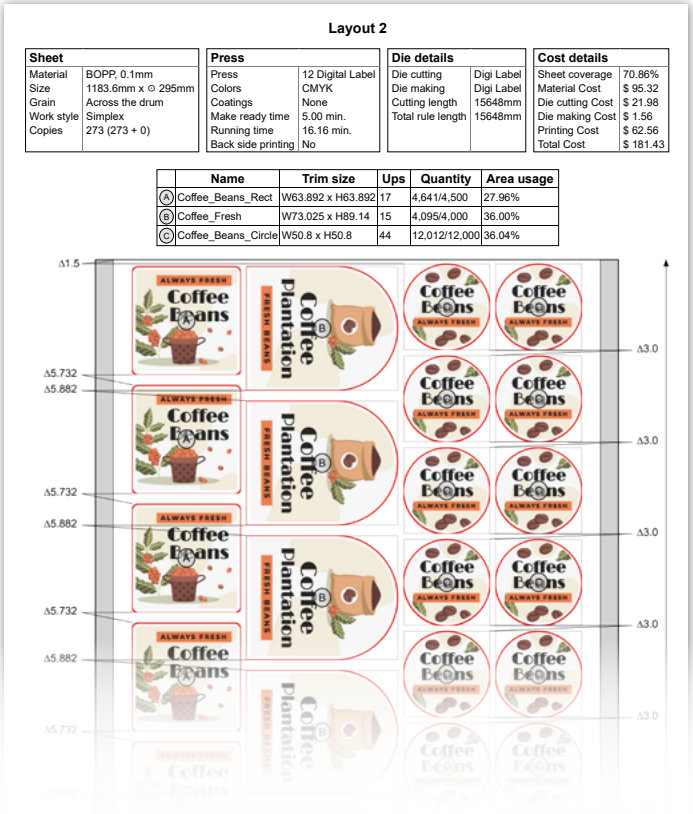
SWITCH Integration. Imp Flow application seamlessly integrates into your SWITCH flow to give end-to-end automation. First time the file is touched is when it is sent on printing device.

API Integration. A comprehensive SDK (software development kit : API) on .Net 6 is available for integration with MIS/ERP or custom developed solutions.

COMPREHENSIVE DATA EXCHANGE

Reports and Data Exchange. Export comprehensive data of layouts, costs, operations and materials used in PDF, XML, CSV or MXML formats.

Export Options. Export imposed PDF/JDFs for print. Cut files in JDF/PPF for guillotines & CF2, DXF, PDF, PLT or ZCC for die-layouts.



Layout 2

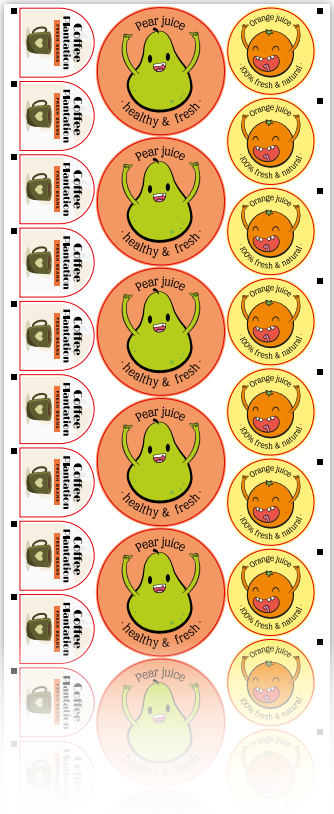
Sheet	
Material	BOPP, 0.1mm
Size	1183.6mm x ⊙ 295mm
Grain	Across the drum
Work style	Simplex
Copies	273 (273 + 0)

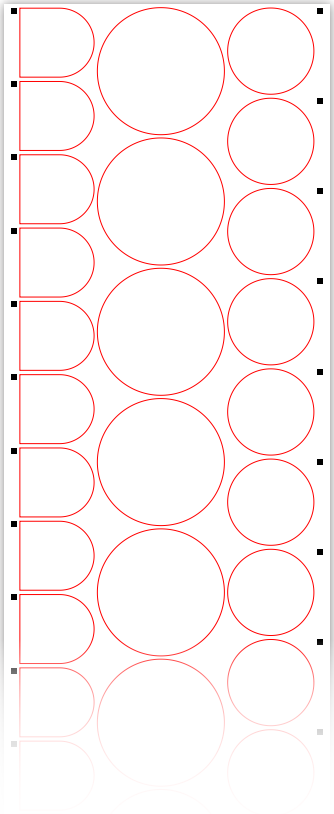
Press	
Press	12 Digital Label
Colors	CMYK
Coatings	None
Make ready time	5.00 min.
Running time	16.16 min.
Back side printing	No

Die details	
Die cutting	Digi Label
Die making	Digi Label
Cutting length	15648mm
Total rule length	15648mm

Cost details	
Sheet coverage	70.86%
Material Cost	$ 95.32
Die cutting Cost	$ 21.98
Die making Cost	$ 1.56
Printing Cost	$ 62.56
Total Cost	$ 181.43

	Name	Trim size	Ups	Quantity	Area usage
Ⓐ	Coffee_Beans_Rect	W63.892 x H63.892	17	4,641/4,500	27.96%
Ⓑ	Coffee_Fresh	W73.025 x H89.14	15	4,095/4,000	36.00%
Ⓒ	Coffee_Beans_Circle	W50.8 x H50.8	44	12,012/12,000	36.04%



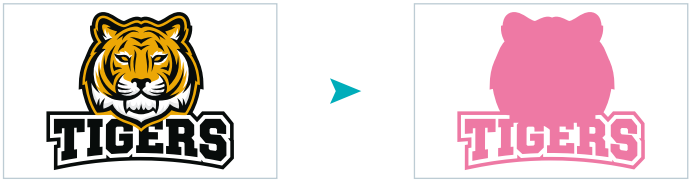


ENHANCERS

Automatic Cut-contour. No cut contour in input files for digital cutting systems ? No problem. Imp software will generate the cut path from non-white pixels, used in the artworks - Automatically !

Dynamic Bleed Generation. If there is no bleed in input artworks (PDF, TIFF, JPEG or PNG file formats), Imp software can detect & generate bleed content for rectangular and die-cut jobs – Automatically !

White Separation. Imp software can generate image masks for under or over printing white ink, varnish, or other embellishments like emboss or foiling - Automatically !



Back Side Creator. What if you want the artwork to be flipped; for back side printing? Software flips it and generates back side artwork - Automatically !

In the intricate world of PDF production, the details are paramount. Insoft has consistently exceeded our expectations. **InSoft Automation's solutions demonstrate a mastery over challenges like managing precise bleeds and navigating the most complex shapes with finesse. Our team's user experience has been seamless, not only due to the intuitive design of their tools but also their quick response times and robust automation that have streamlined our workflows.**

Their support team exemplifies Insoft's commitment to excellence. **It's rare to find a partner that brings together the best of technology, expertise, and human touch in the way InSoft does.** We feel privileged to have them as our trusted ally in this industry."

Manuj Bharti mt3 Dallas, TX

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Automate & Optimize!

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