INSOFT AUTOMATION | Metamation
www.metamationgs.com

AUTOMATE & OPTIMIZE

Imp
Simplify Complexity

ANNOUNCEMENT

We are pleased to announce the takeover by InSoft Automation Pvt. Ltd., of the Intellectual Properties related to Imp and other Graphic Systems software product lines from Metamation. By way of introduction, InSoft is the parent company of Metamation. This new re-alignment of product portfolio enables greater focus to be applied on the Graphic Arts software division, offering our customers even better responsiveness and higher levels of product development. The development, support and marketing teams have also moved to InSoft and more resources are being added to further enhance the existing capabilities. Metamation will singularly focus on the CAD/CAM and manufacturing space.

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INTRODUCTION

Imp
Simplify Complexity

Imp is an automated layout planning software, which creates efficient print-ready layouts considering technical specifications and cost parameters of major processes like printing, folding, die-making, embossing, braille, foiling, die-cutting and paper simultaneously in a hands free way. It is a software with all the required information and intelligence to completely automate the task of planning and imposition.

It is the only software in its class that covers the entire range of offset printing jobs.

BOUND JOBS

- Signature (Assembly) planning & layout planning for all types of presses.
- Only automated software for planning & imposition for multiple web presses.
- Planning and imposition is one step. Eliminates imposition from prepress.

DIE-CUT JOBS

- A new methodology has been adopted to automate nested layout creation which allows users to generate output for printing as well as die-making from the same software. Starting with 1-up geometry (die line) in CAD (DXF/CFF2) or PDF format the software creates cost efficient nested layout considering cost of printing across multiple presses, sheet /reel sizes in inventory, die-making, embossing, braille, foiling and die-cutting cost.
- Single interface to create layout for print and die-making.

DIE-LIBRARY

- In a packaging converter's workflow - it is very common to reuse existing dies for new jobs. The challenge here is to search for matching die from hundreds of dies in die inventory. InSoft achieved a significant breakthrough in this process by introducing a new feature called 'Die-Library Search'.This new feature allows packaging printers to dynamically search tens of thousands of existing dies to find geometrically matching dies for a new job. Apart from a metadata-based search, IMP is capable of comparing geometry of the current job with thousands of jobs in the database and finding close matches.

GANGING

- The process of combining different jobs and printing them together, can drastically reduce the make readies & boost productivity. The revenue and profit that this approach can give is vast. InSoft's Imp software has sophisticated ganging algorithm which can calculate how to combine and optimize hundreds of jobs of varying quantities, colors, substrates and sizes across multiple presses and sheet sizes.
- Being able to gang die-cut jobs with non-rectangular geometries with the same ease option is one of the ways we stand above competition here. Ganging of die-cut jobs of different shapes, varying quantities, colors & substrates makes a very complex task simple. This unique feature has been found to be of great value for optimizing sheet area on large format digital printers.

BOUND JOBS

Imagine the benefits of a machine which can tell you the most economical way of printing and binding any job in seconds and also generate imposition plates!

AUTOMATION

[aw-tuh-mey-shuh n]
Noun
The technique, method, or system of operating or controlling a process by highly automatic means, as by electronic devices, reducing human intervention to a minimum

Imp's fully automated planning creates rip-ready layouts, thus eliminating the need for an imposition software in prepress. With Imp, job planning and imposition are not separate tasks. With multiple key innovations, it automates planning and imposition:

PLANNING & IMPOSITION

Single click to automatically make all of the following choices while trying to optimize overall cost :

- Choosing the right signatures for the job.
- Assembling the signatures in the right order.
- Choosing the right press.
- Choosing the right paper size.
- Placing multiple signatures on the same sheet if necessary.
- Placing all the marks (printers furniture)

User can export populated JDF (with printer marks) or unpopulated JDF for further processing. User can also link the Job PDF in Imp to generate accurate Imposed PDF, which is ready to RIP.

INNOVATIONS THAT MAKE COMPLETE AUTOMATION OF PLANNING POSSIBLE

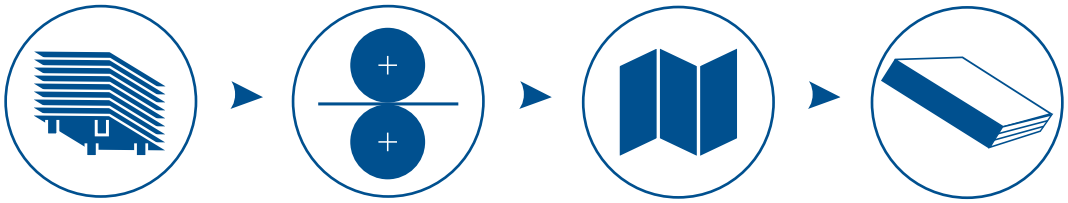
Imp's planning engine for bound jobs is unique as there are no other solutions in the market that can calculate the assembly plan as well as the layout plan in a single step. In competing solutions in the planning space, user generally has to choose the signatures and also assemble them manually. Only then, do these systems automatically select the right sheet size.

The key reason for making such automation possible is the strength and speed of planning and optimization algorithms of Imp. But that is not all. We understand commercial printing very well and have distilled and captured the parameters of printing & binding to great depth. Some of the following sections illustrate this.

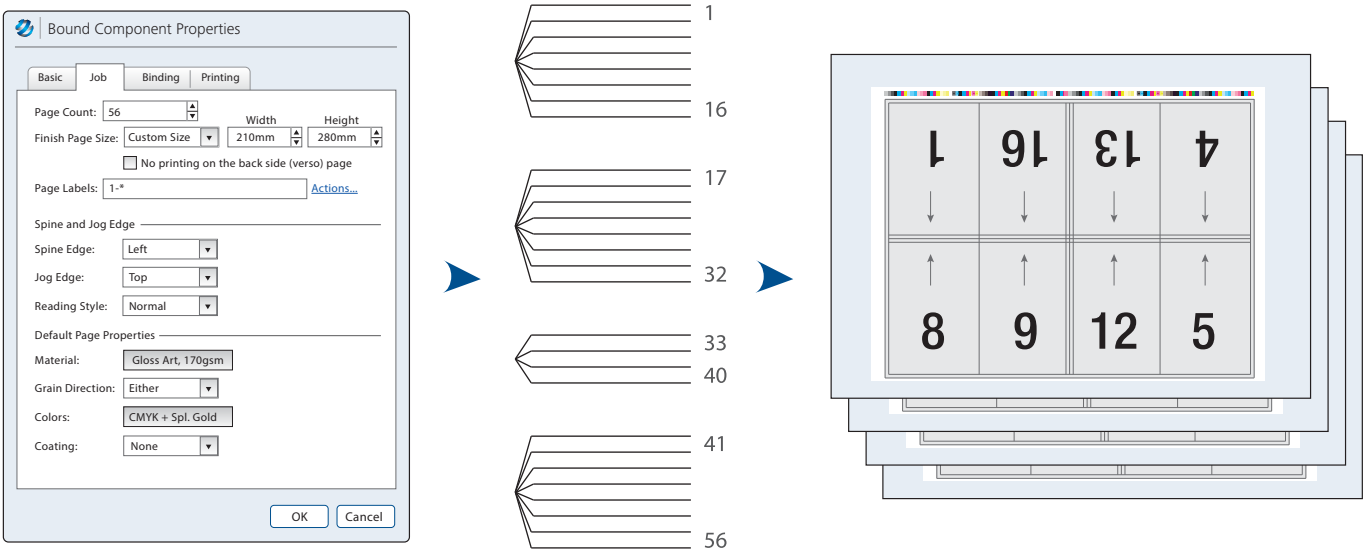
BEING AWARE OF PROCESS CONSTRAINTS & COSTS

Imp is aware of most of the printing and binding processes, along with their constraints and cost implications. Ignoring some of the mundane parameters, some very special once are listed below:

- Speed of press when perfecting (for a perfecting press)
- Press make ready wastage and running wastage ratio.
- Folding machine setup & running cost.
- Minimum & Maximum size of cover for the binder.



SELECTING THE RIGHT SIGNATURES & ASSEMBLING THEM

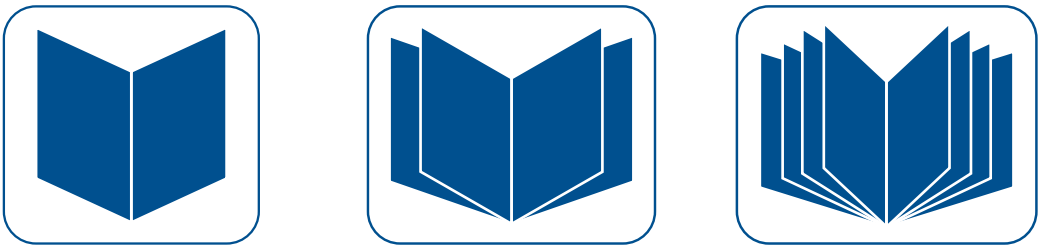


Import job definition from an XML or feed manually.

Imp automatically selects the signatures, press sheet size, work style and press. Partial signatures are handled automatically. Graphical UI allows the user to modify the section plan with ease.

There are many unique parameters in Imp that affect signature selection and assembly:

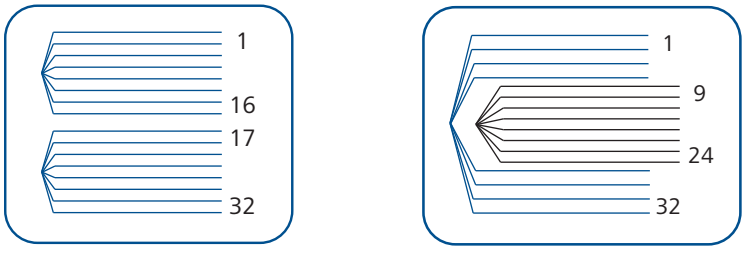
Signature folding depth. For every folding template (signature template) Imp computes the maximum folding depth. Before considering such a template, Imp checks if this folding depth is compatible with the paper/media chosen. For example, for a 300gsm paper Imp will not consider a 32page template which requires 4 folds, but for a thinner or lighter paper, it will.



300gsm can only be creased! *170gsm can take a 8pp folding* *100gsm can take a 16pp folding*

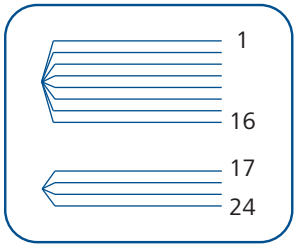
Note that the maximum folding depth for a folding template is determined by how the paper is folded. For example, the folding depth of the common F8-7 (JDF catalogue name) is two, but for an accordion 8page fold, it would only be one. It is not required for the user to specify this value as they are computed automatically by the software.

Min. & Max. Section depth. Assembly of folded signatures for a good or feasible binding result is another problem Imp tackles automatically. In section sewing binding method it is important that signature thickness is optimum to provide strength for the thread to hold. To achieve the desired strength, multiple signatures are inserted (collected) into each other before going for section sewing. This task of planning jobs with inserted signatures is fully automated in Imp based on the paper caliper, press size, binding and folding machine constraints.

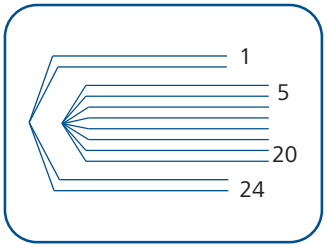


Perfect bind assembly *Auto collection of signatures for section sewing*

Partial signature position. User can set the preference of how partial signatures must be positioned once, and forget. Imp auto planning will automatically place the partial signature (if any) based on this preference every single time.



Jobs with gathering can have partial signature second or second last



Jobs with collecting can have partial signature outermost or innermost

Folding cost. Folding cost forms a very important component of the overall cost calculation that Imp tries to optimize. Without this cost parameter, Imp would not know how to choose the right solution between the two possible options shown below for a 48 page book.

12 + 12 + 12 + 12 = 48 page booklet*	**16 + 16 + 16 = 48 page booklet***
12 page signature has better sheet fit thus saving on material.	But the cost of folding three 16 page signatures is lesser that folding four 12 page signature.

Another such situation for a 30 page booklet is illustrated below

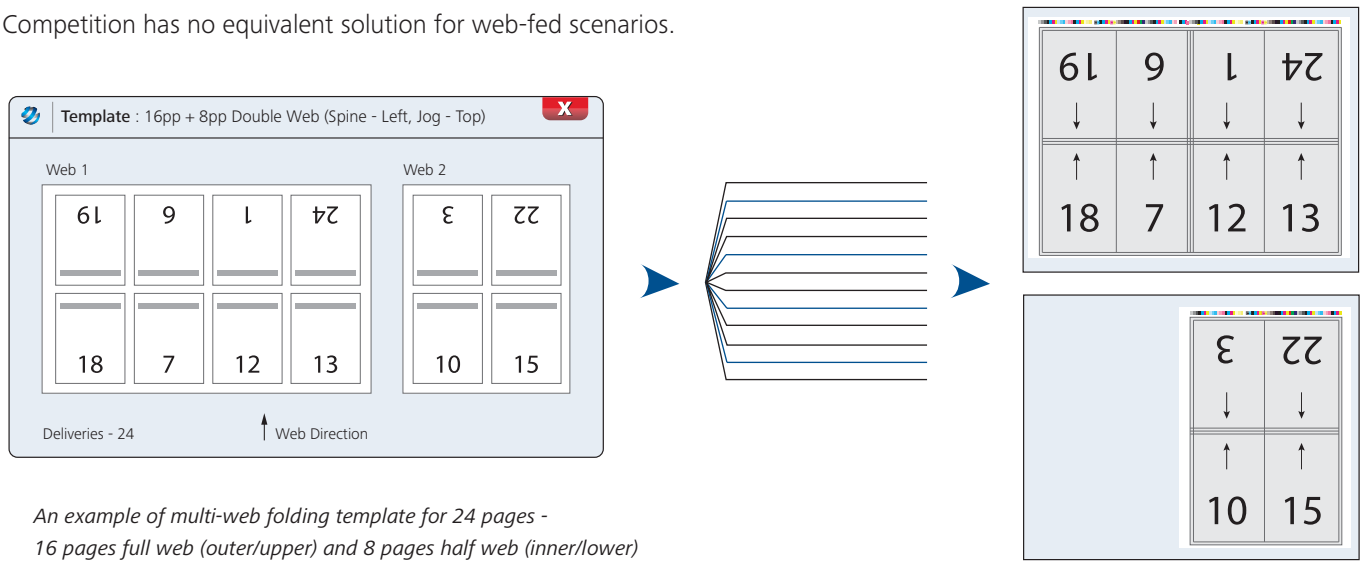
8 + 8 + 8 + 6 = 30 page booklet*	**8 + 8 + 8 + 8 = 32 page booklet***
The exact page count is achieved, but there is is an additional folding setup cost for the 6 page partial signature.	Only one folding setup is required, but two blank pages will be added at the end of each booklet which might mean wasted paper.

* software gives multiple layout solutions for user to choose from

ONLY AUTOMATED PLANNING SOLUTION FOR WEB PRESSES

The unique custom dynamic web folding template database ensures the same ease and automation of job planning and imposition as on sheet-fed presses. Whether it's a single web, multiple web or press with slitter attachment, Imp offers full automation in Job planning and imposition.

Competition has no equivalent solution for web-fed scenarios.

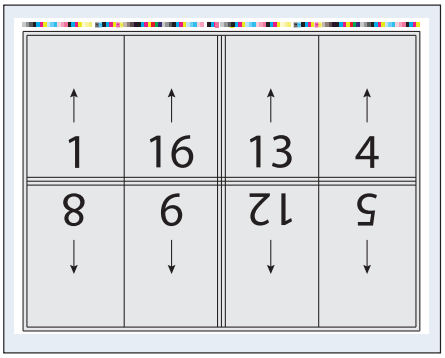


An example of multi-web folding template for 24 pages - 16 pages full web (outer/upper) and 8 pages half web (inner/lower)

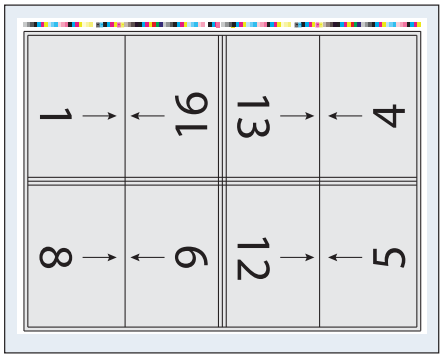
INNOVATIONS & EASE OF USE

RIGHT & TOP-SPINE BOUND JOBS

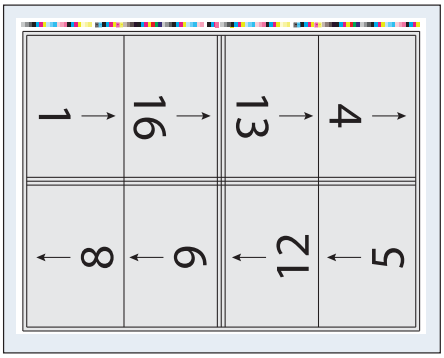
Imp supports planning of jobs with spine edge on any side - Left, Right, Top or Bottom. For Right spine jobs like Arabic books, the page order is changed automatically. In Top spine jobs Imp plans for both Normal Reading and Table Top Calendar styles. Examples of right and top spine bindings are shown below:



Right spine with Bottom Jog



Top-Spine Table-Top Calendar

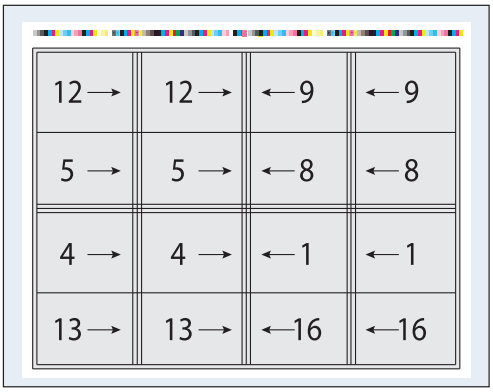


Top-Spine Normal Reading

N-UP PRINTING & BINDING

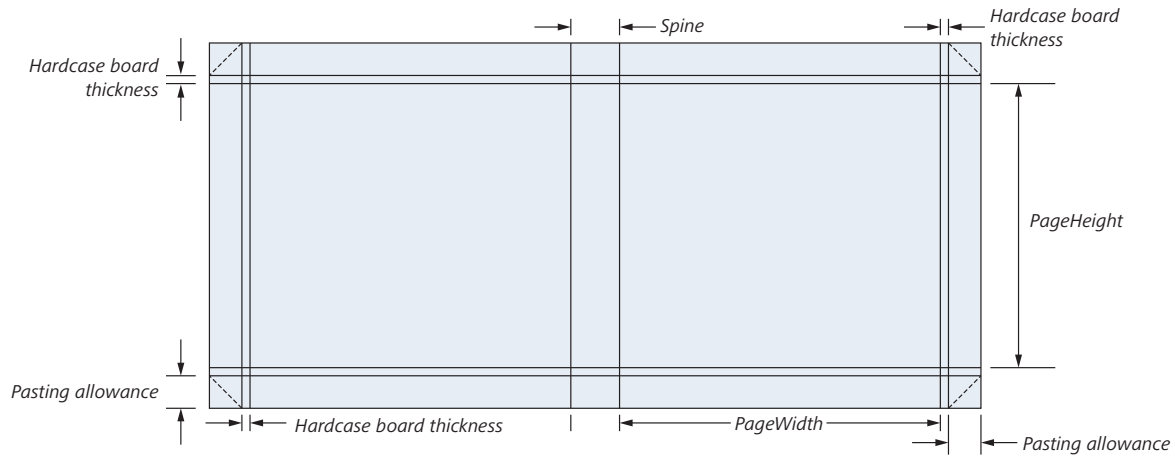
Small size jobs which are out of folding or binding machine minimum-size limitation can be easily planned and imposed by using the N-up printing feature. Just enter the N-up factor and Imp will use the standard folding templates and use them as per the N-up factor defined.

An example of N-up (2up) folding:



CREATING COVERS & JACKETS WITH SPINE

- The challenge in bound jobs is to find out the spine thickness. In Imp it is automated.
- Pasting sheets & Jacket components are created automatically in Imp.
- User can create & save the cover templates as parametric models. These can adopt to any trim size.

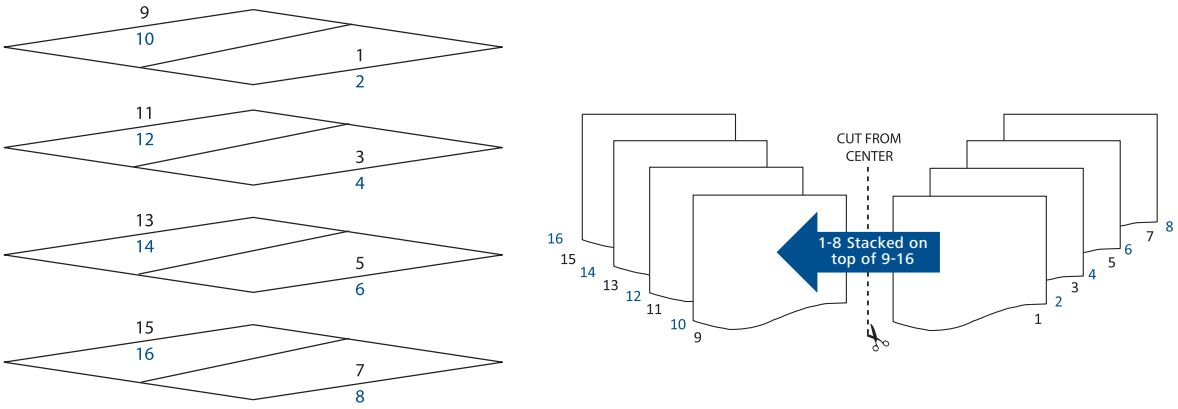


HANDLING SPREADS

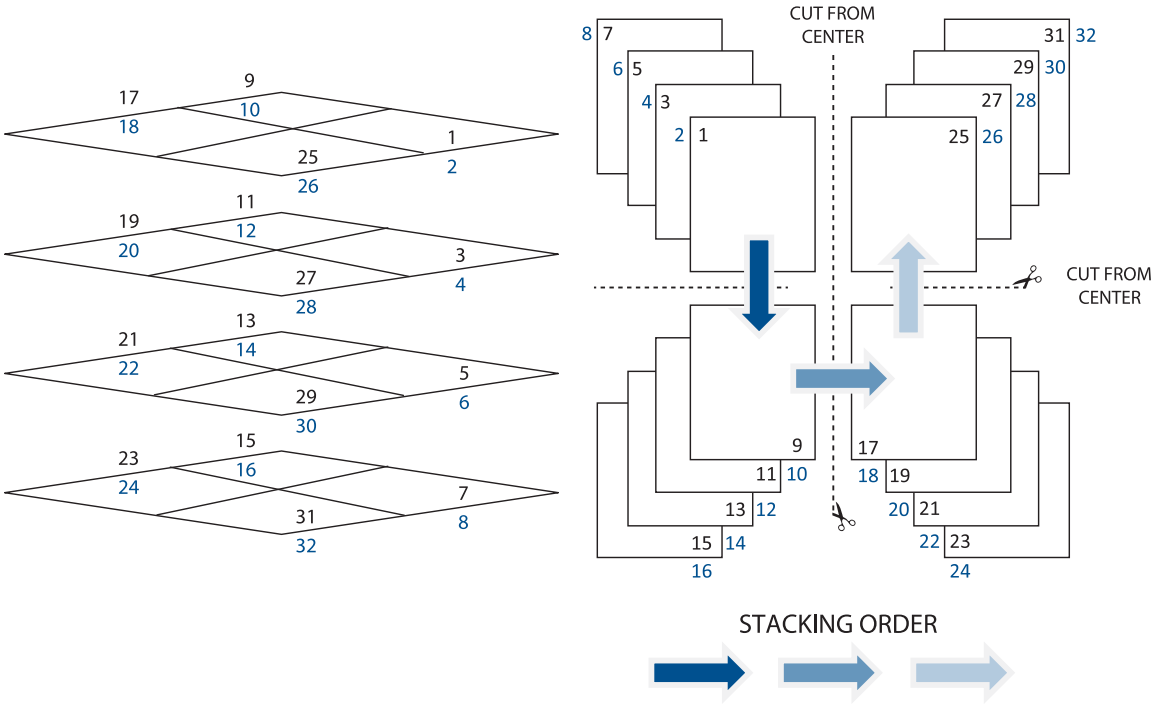
Handling of spread pages was never easier. User can input PDF file with Spread Pages for a job. Imp automatically splits the spreads into individual pages and places them on their respective position on the imposition template. It is not required to make new imposition templates just to handle spread page. Also, Imp has the intelligence to auto-detect spread pages interspersed between normal pages in the same PDF and give them appropriate treatment.

CUT & STACK BINDING SUPPORT

Imp can autoplan jobs for cut & stack binding. Other solutions can also do this but not as easily as Imp can do! Imp's dynamic templates adapt to the cut & stack binding method, and page order is automatically assigned. This functionality is predominantly used for producing books on digital presses like HP Indigo, Canon, Xerox, Ricoh, Konika etc.



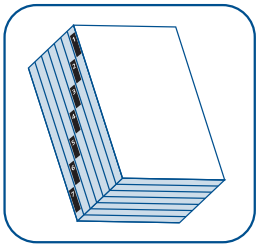
Cut & Stack using 4pp folding template



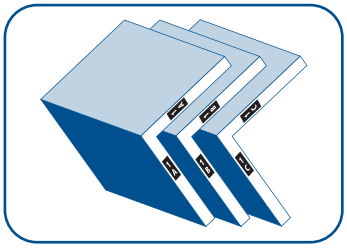
Cut & Stack using 8pp folding template

FLEXIBLE COLLATION MARKS

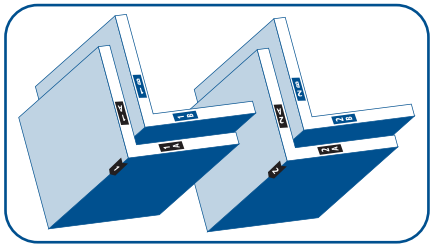
Collation marks on spine or jog can be assigned with ease. Different patterns are available with custom color fills for multiple signature collecting and gathering scenarios.



Spine Collation
(Perfect Bound)



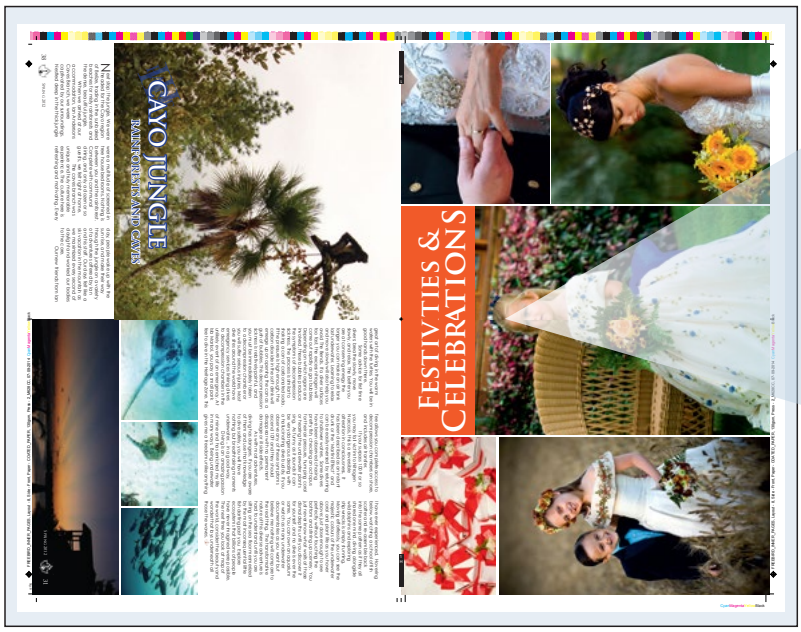
Jog Collation
(Stitcher Trimmer)



Jog & Spine Collation
(For collecting & gathering - Section Sewing)

CREEP COMPENSATION

Creep compensation is essential where binding process needs collecting of multiple signatures. Imp gives the option to apply the creep compensation based on paper caliper (thickness) or custom value in multiple ways - **Towards Spine, Towards Face or Both!** Inspite of this automated creep compensation, user can edit creep value on individual pages. This option ensures that the content is not disturbed in case of running images or text on facing pages!



User can reset auto-creep compensation on selective pages as per the artwork demands!

Creep compensation shifts the content in the spine. In case of running artwork on the spreads, it results in misaligned objects because of content shift.

Correct object alignment at the spine after auto-creep reset!

DIE-CUT JOBS

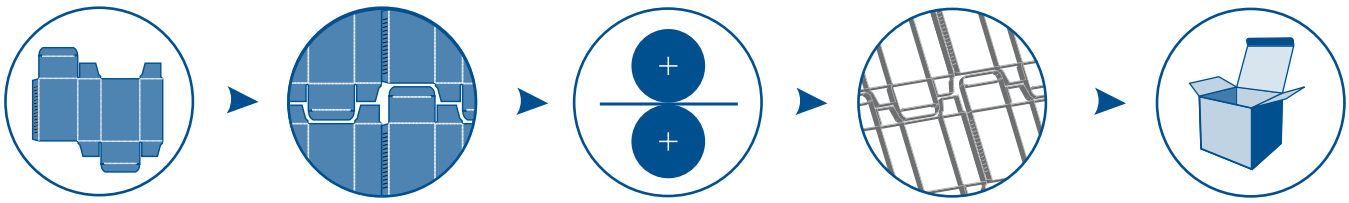
Imagine the benefits of a machine which can tell you the most economical way to print and die-cut a job in seconds and also generate output for printing and die-making/cutting!

SIMPLIFY

[sim-pluh-fahy]
Verb
To make less complex or complicated; make plainer or easier: to simplify a problem

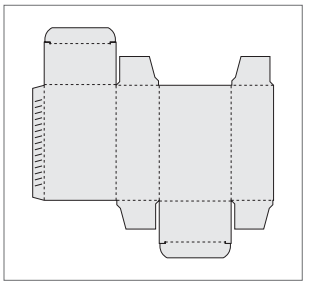
INNOVATIONS IN DIE-CUT JOBS PLANNING

Generating a layout plan for die-cut jobs is complex. It requires simultaneous tweaking of multiple parameters to minimize cost and increase throughput. Imp is the ideal tool that will empower the estimator or planner to generate efficient layout plans in no time.

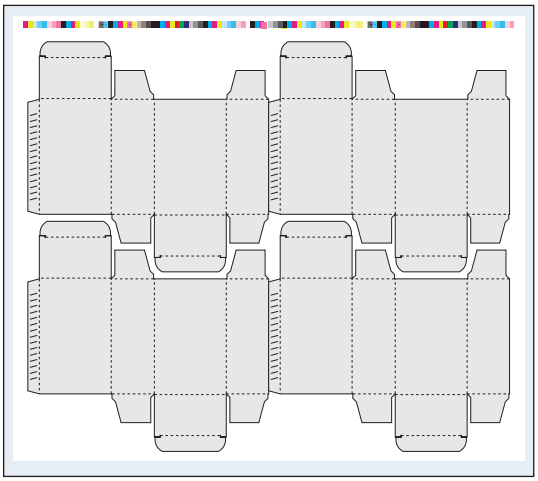


HOLISTIC COST-BASED OPTIMIZATION

Printing cost, plate cost, die-making and die-cutting costs, paper cost, make-ready and running wastage costs, additional post press operation costs like block-making cost for emboss, braille or foil stamping processes are taken into account by Imp when generating the optimal layout plan. As minimizing overall cost is the optimization goal, Imp will consider multiple scenarios to strike the right balance between these independent cost functions.



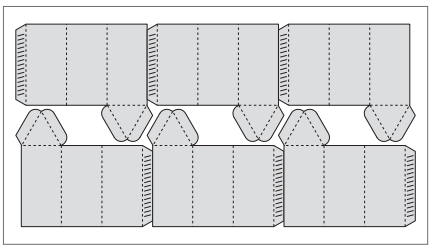
1-up die line in CAD (DXF/CFF) or PDF format



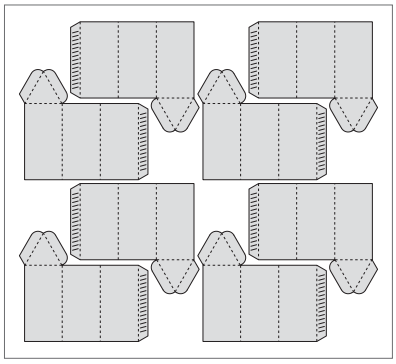
Imp generates the most optimum layout plan

ADAPTIVE INTERLOCKING PATTERN (AI PATTERN)

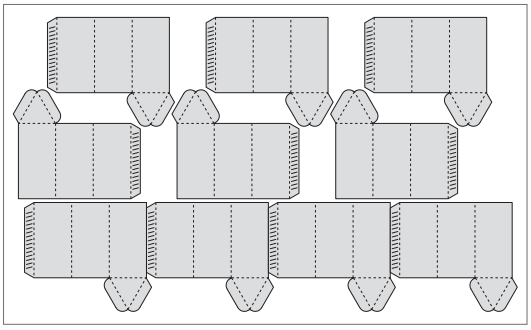
When constrained by an available list of sheet sizes or reel widths, it is critical to consider multiple interlocking patterns for a single job. See the illustrations below. Imp dynamically generates the repeat pattern that is best for that sheet size.



Interlock pattern ideal when the fit is tighter in the vertical direction



Interlock pattern ideal when the fit is tighter in the horizontal direction

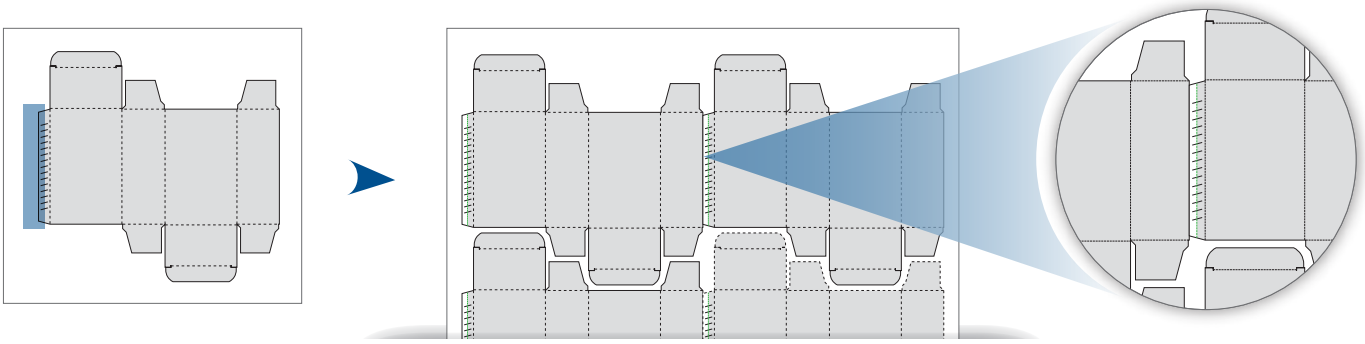


Multiple repeat patterns within the same sheet

INTELLIGENT SINGLE CUTs

Creating single cuts leads to savings in die-making. User just needs to mark non-critical region(s) (regions where printing is not required or will not be visible after folded and glued) on a job and Imp will know where it can collapse the gap between job edges to create a single cut. So, every time the user does an auto-nest with this job or does a manual step & repeat, Imp will do the necessary analysis in the background to create these single cuts automatically.

This important automation step is either absent or not so automated in competing solutions, which means that the layouts created by them often require manual intervention.



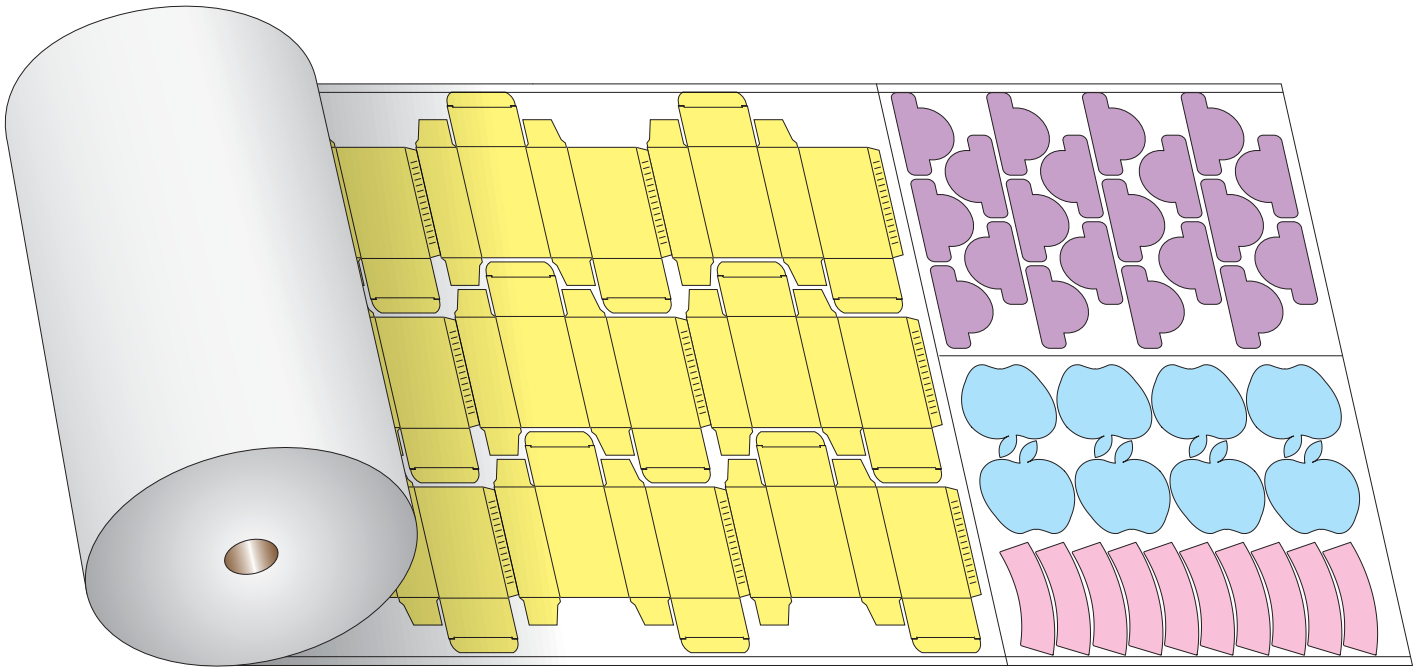
Marking non-critical regions like Glue Flap in this example

Auto plan layout

Imp automatically plans the Glue Flap regions as single cut

REEL SHEETING

The advantage of sourcing print sheets from reels is that, one of the dimension can be optimized to the maximum. IMP's ability to suggest sheet sizes from the paper / board reels in the inventory results in paper savings.

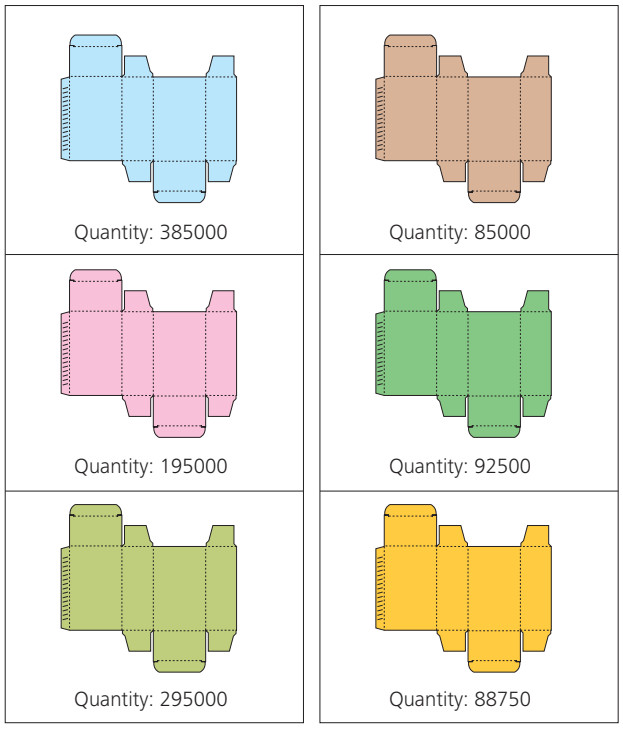


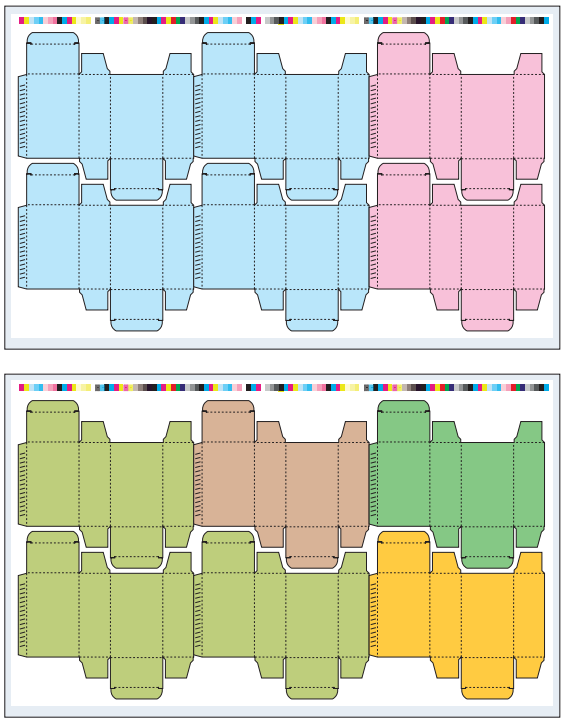
CUSTOM SHEET SIZE CALCULATION

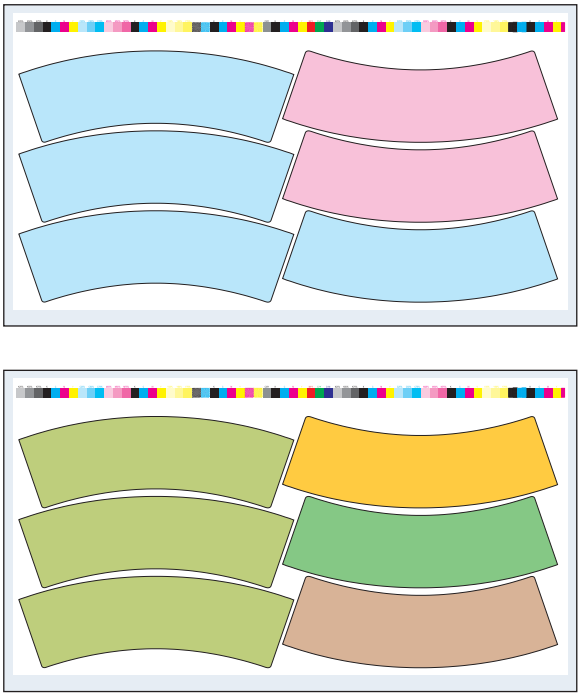
Imp's nesting and planning algorithms can calculate the best fit or most optimum sheet size for a particular job based on its intent or job definition irrespective of any sheet or reel inventory available in that particular grade.

SINGLE DIE - MULTIPLE ARTWORKS

Packaging jobs are often designed with multiple artworks to accommodate different flavors, regions, languages and cultures. The quantities required for each design may vary. Since the structural design remains common, Imp can plan these different variants with different number of ups to achieve the required quantity on an existing step & repeat layout or suggest a new plan with common step & repeat pattern for all possible layouts to avoid making multiple dies for different layouts. Imp also tries to mix different colors on same layout if possible to optimize the printing press capabilities or reduce dies.

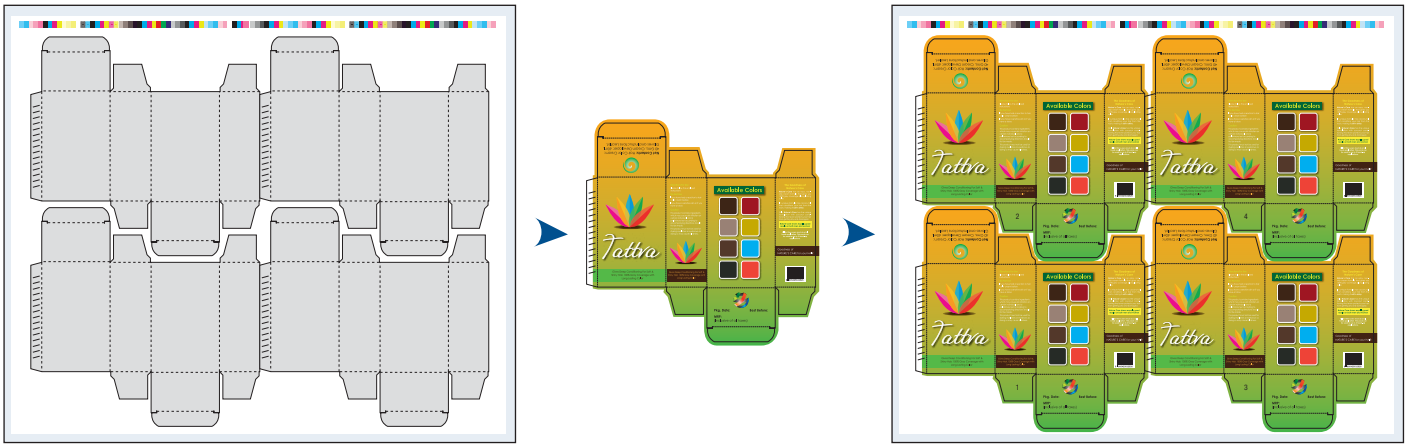






PRINT LAYOUT PREPARATION

With Imp, layout plans generated by the estimator or planner are not just graphical and accurate but also ready to RIP. In prepress, simply link the PDF artwork inside Imp to see a WYSIWYG preview or to generate RIP-ready PDF/JDF (marks included).



1 *Planned layout from Estimator / Planner*

2 *Link single-up artwork in PDF Format*

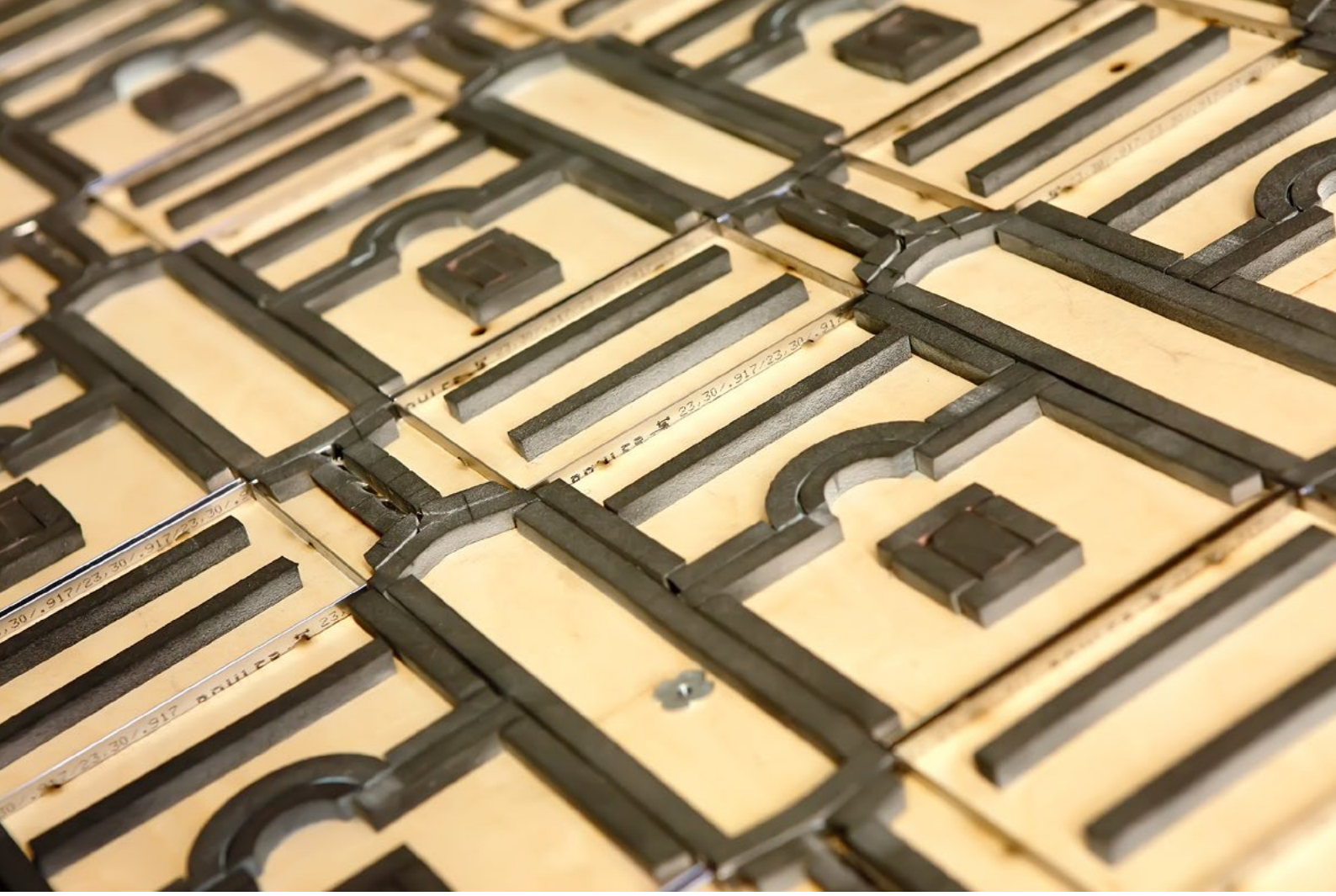
3 *Populated step & repeat layout for final output and die export is ready*

DRIVE PRINTING & DIE-CUTTING FROM SAME INTERFACE

From Imp, you will be able to generate output for CTP as well as die making. No need to use multiple applications and maintain multiple files. All your team members, across multiple departments will be using the same tool and learning the same skills. Imp is so easy to use, that even an estimator will be able to generate final output for CTP & die making.

TRUE BLEEDING TECHNOLOGY

With a radically new approach, bleed overlap resolution is completely automated. Just mark non-critical regions on the single-up, and Imp will know how to resolve bleed overlap conflicts on the layout. No further manual intervention is required.



DIE-LIBRARY

Imagine the benefits of a robot which can automatically search and fetch you matching die(s) for any new job with nothing but the geometry information!

MANAGE

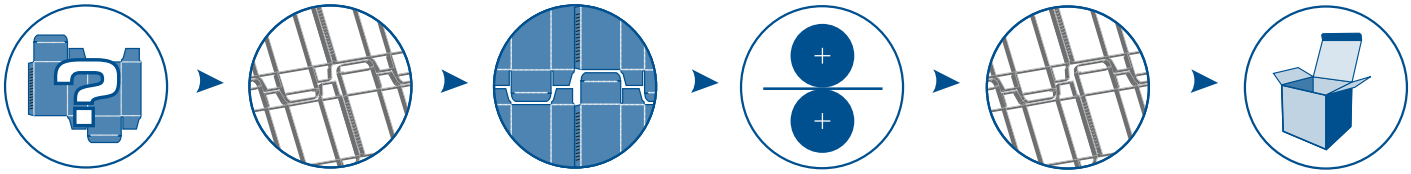
[man-ij]
Verb
To bring about or succeed in accomplishing, sometimes despite difficulty or hardship

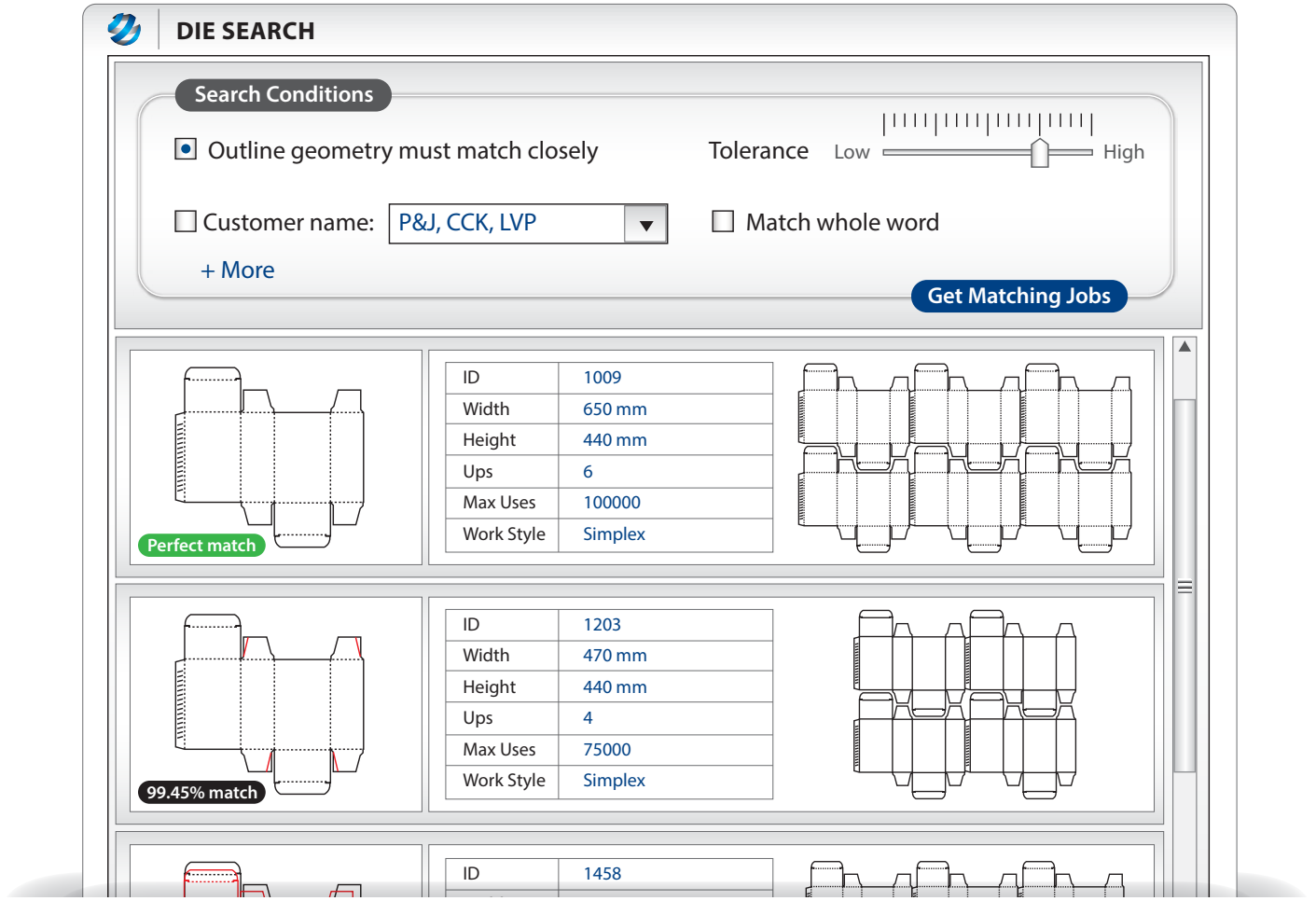
DIE-LIBRARY

This features allows packaging printers to dynamically search tens of thousands of existing dies to find geometrically matching dies for a new job.

Apart from a metadata-based search, Imp is capable of comparing geometry of the current job with thousands of jobs in the database and finding close matches. User can super-impose the geometries and graphically see how close the match is.

Further, Imp is also capable of making the necessary cost calculations to see if the printer is better off using the existing die or making a new one. It is also important to mention here that one can seed this die-database with existing dies by importing the industry standard CF2 CAD files.





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GANGING

Imagine the benefits of a seasoned automation into which you can drop job specifications from the top and get highly efficient ganged layouts from behind.


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SAVE $1.00
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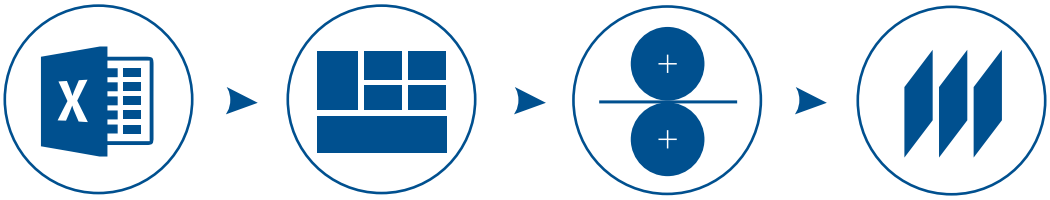
SAVE $3

POWERFUL GANGING

Imp is the most effective & comprehensive ganging tool available in the market today. It is powered by very sophisticated and highly evolved ganging algorithms which are capable of optimizing jobs with varied quantities, colors & coatings across multiple sheets sizes and presses. With IMP, you have the option to pool the entire day's jobs together, set the priorities and then hit a button to automatically generate efficient ganged layouts.

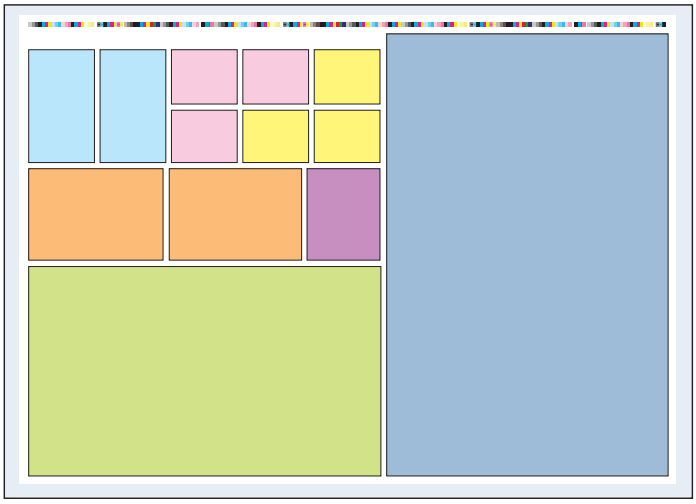


RECTANGULAR JOBs

Starting from a CSV/XML file, gang hundreds of jobs across all possible sheet sizes, multiple presses and different color combinations in one click.

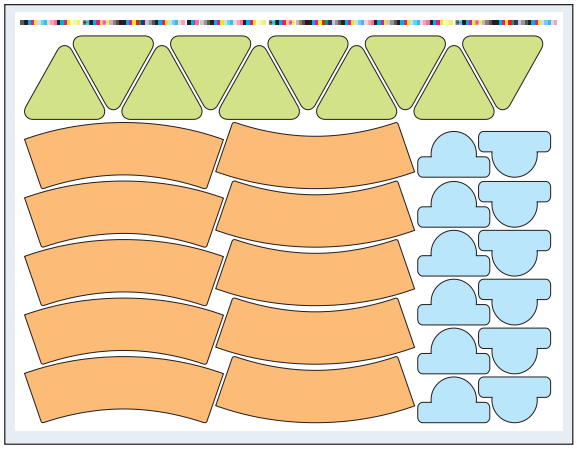
Different Jobs, Varying Sizes and Quantities

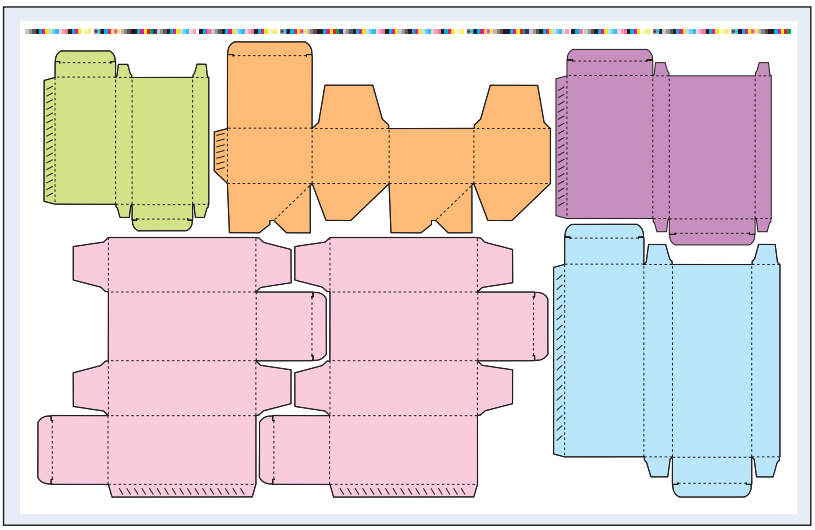
Imp automatically suggests the sheet size, no. of sheets to print, workstyle, no. of ups and arranges it for cutting simplicity.



DIE-CUT JOBs

Import die-cut jobs through CSV with DXF (1up die-line) link, gang hundreds of die-cut jobs across all possible sheet sizes, multiple presses and different color combinations in one click.

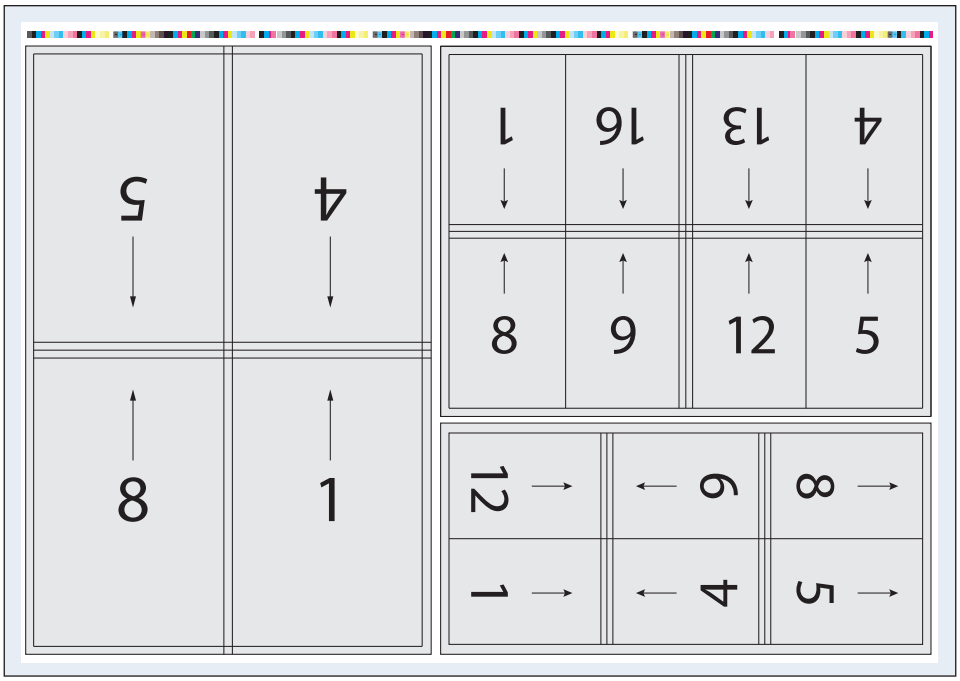




Carton Ganging

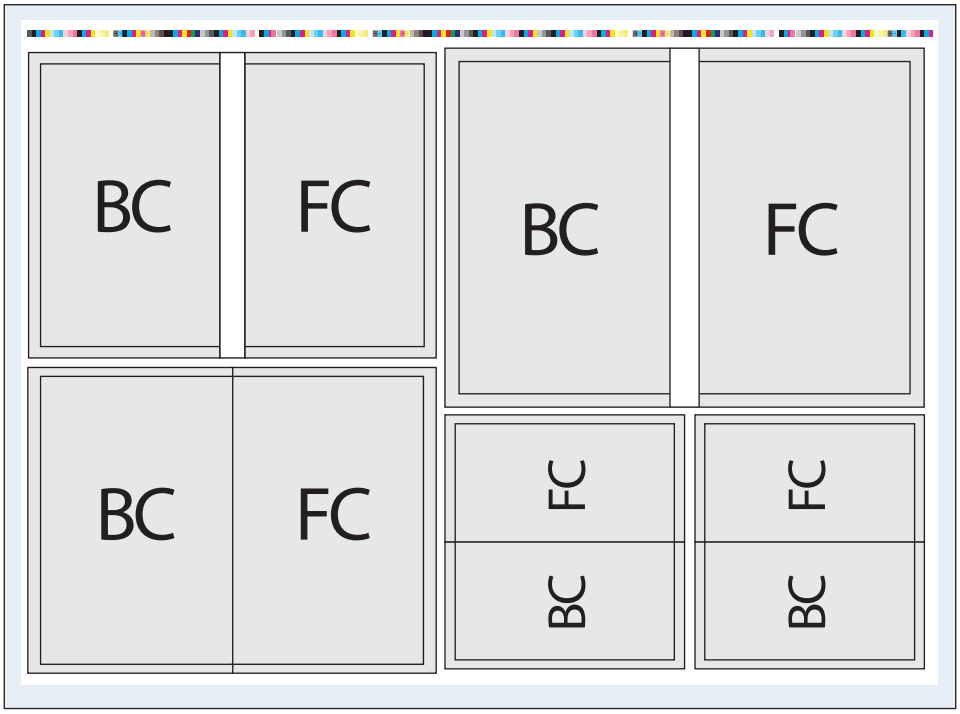
SIGNATURE GANGING

For optimizing multiple bound jobs printing together, Imp is capable of ganging different signature plans together for utilizing printing press optimally. Imp can identify, sort and gang signatures automatically based on paper, colors, quantities, binding and trim size suggesting the most optimum cut-sheet size, press, workstyle and also combining different colors if possible to reduce press runs.



COVER GANGING

Covers of different sizes, varying spine thickness, different colors and quantities can be ganged together!



HOTFOLDER

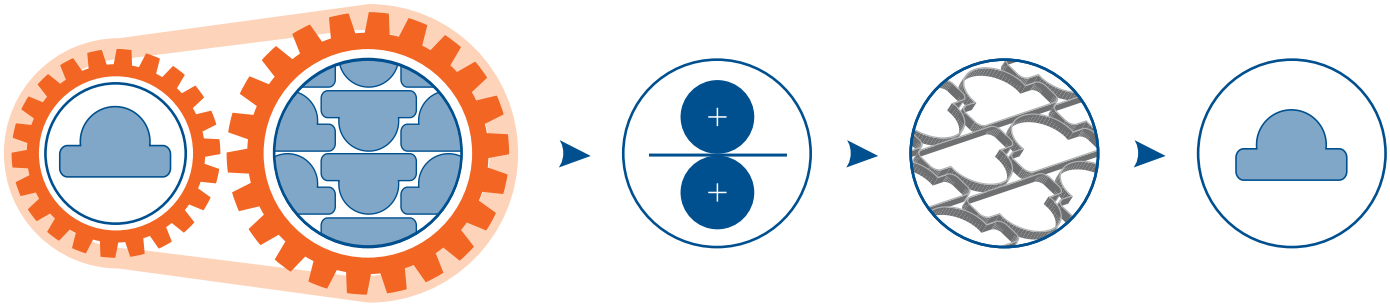
Imagine the benefits of an unmanned workflow to generate plans and imposed layouts by dropping PDF, DFX, CSV or an XML file in a designated folder!

HANDSFREE

[handz-free]
Adjective
Not requiring the use of the hands

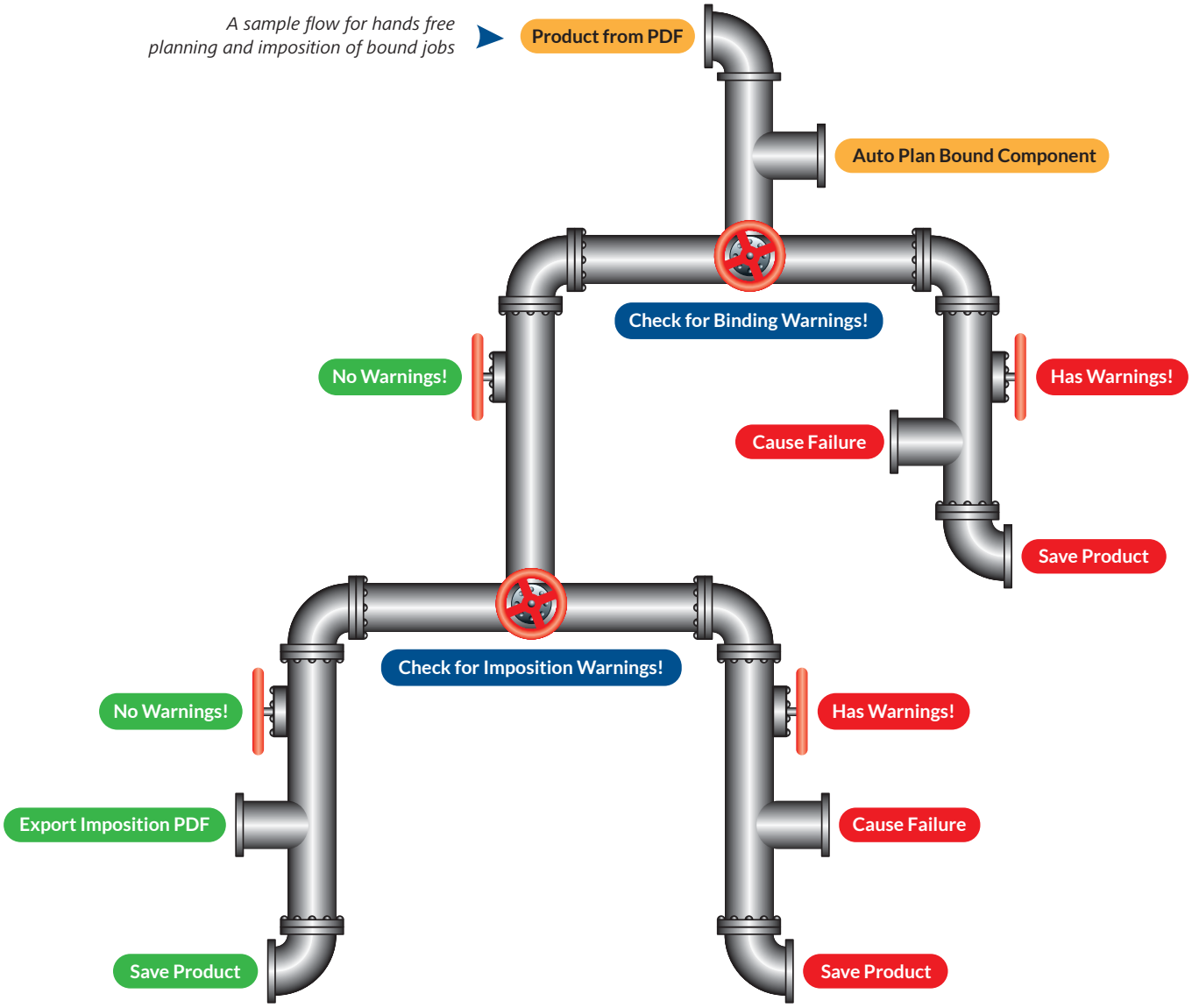
HANDSFREE AUTOMATION

The power of standalone Imp is now available as HotFolder actions for complete unmanned planning and print layout creation of any kind of print job.



Imp's hotfolder automation engine is named **Imp Flow**. User can define automated job flows as per input and output intents. Imp Flow allow user to define Valves in a job flow, these valves act as warning filter and expected action when there is no warning or a warning flag is raised!

A sample flow for hands free planning and imposition of bound jobs



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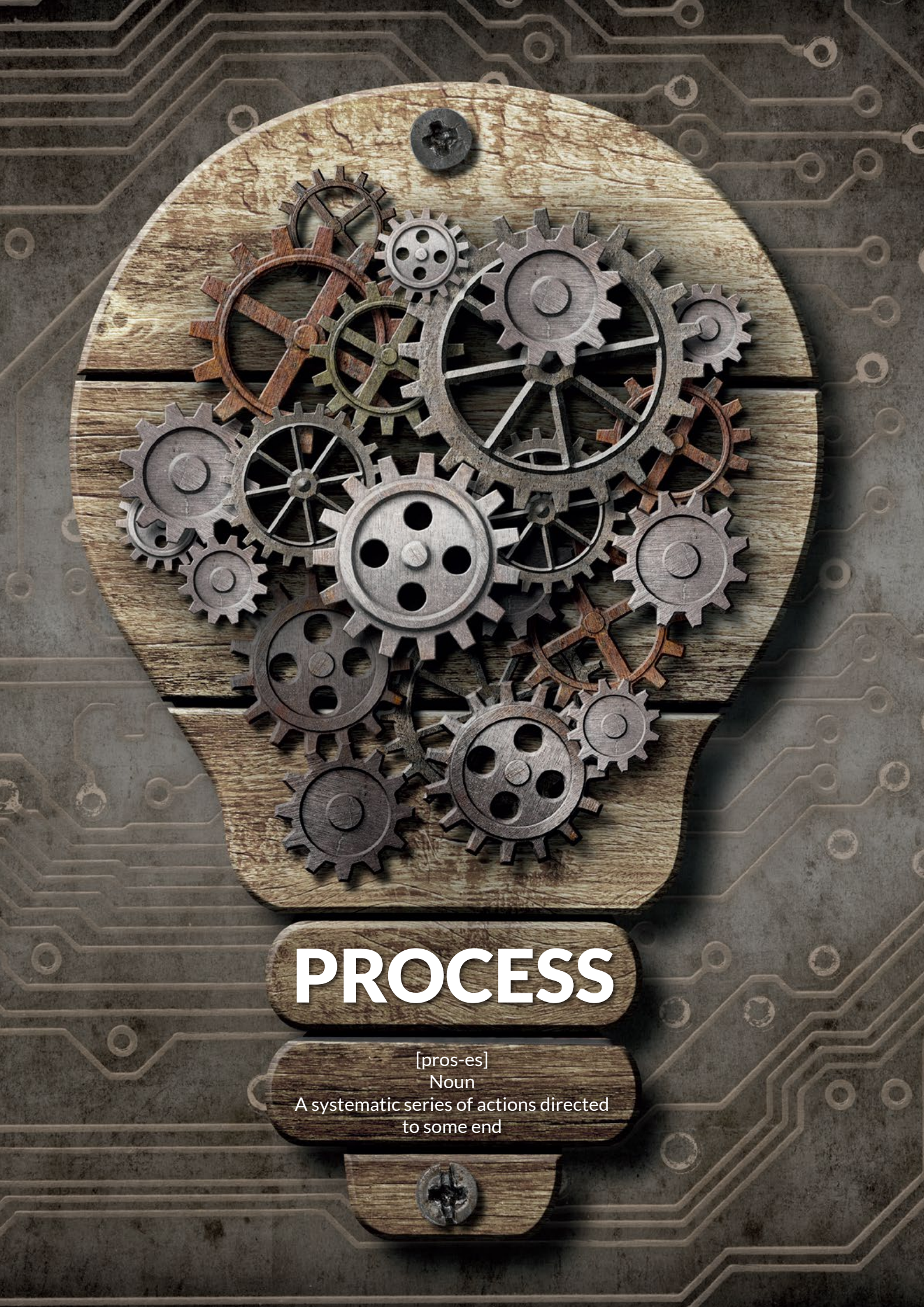
JOB I/O & DATABASE

Imagine the benefits of having a system capable of communicating with an MIS / ERP for job intent and sending back the plan information along with Prepress workflows via PDF/JDF formats.


PROCESS
[pros-es]
Noun
A systematic series of actions directed
to some end

JOB PROCESSING

JOB DEFINITION FROM PDF FILE NAME

Imp can extract job definition from PDF file name. Just define the parameters you want to import and Imp will create a job automatically. An example of PDF file name with different parameters:

JobName#Quantity#Grade#GSM#Bleed#Grain.pdf

Leaflet#5500#Coated_Gloss#220gsm#3mm#H.pdf

JOB DEFINITION FROM XML OR CSV FILES

Imp supports importing job intent/definition through CSV and XML format coming in from your MIS/ERP system or Web-to-Print system. This eliminates the need to manually key-in job parameters

Name	Height	Width	Grain	Colors (Front)	Coatings (Front)	Colors (Back)	Coatings (Back)	Quantity	Grade	Basis Weight	Bleed
0825108539BIN	6.8125	3.8125	H	CMYK + Pantone 312	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0825108541BIN	6.8125	3.8125	H	CMYK + Pantone 225	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0825108542BIN	6.8125	3.8125	H	CMYK + Pantone 294	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0825108543BIN	6.8125	3.8125	H	CMYK + Pantone 127	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0825108544BIN	6.8125	3.8125	H	CMYK	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0825108545BIN	6.8125	3.8125	H	CMYK	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0825108546BIN	6.8125	3.8125	H	CMYK	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0825108547BIN	6.8125	3.8125	H	CMYK	satin aqueous			5000	Endurance Silk	80# Cover	0.125
0102107658F	9.5	11	V	CMYK + Pantone 225	satin aqueous			3287	Endurance Silk	80# Cover	0.125
0825108329F	9.5	11	V	CMYK + Pantone 294	satin aqueous			3264	Endurance Silk	80# Cover	0.125
1892109068F	9.5	11	V	CMYK + Pantone 127	satin aqueous			3287	Endurance Silk	80# Cover	0.125
0825 109273 F	9.5	11	V	CMYK	satin aqueous			3250	Endurance Silk	80# Cover	0.125
0825 109274 F	9.5	11	V	CMYK	satin aqueous			3250	Endurance Silk	80# Cover	0.125
0825 109275 F	9.5	11	V	CMYK	satin aqueous			3250	Endurance Silk	80# Cover	0.125
0825 109276 F	9.5	11	V	CMYK	satin aqueous			3250	Endurance Silk	80# Cover	0.125
0825 109277 F	9.5	11	V	CMYK	satin aqueous			3250	Endurance Silk	80# Cover	0.125
0825 109278 F	9.5	11	V	CMYK	satin aqueous			3250	Endurance Silk	80# Cover	0.125

JOB-DATABASE

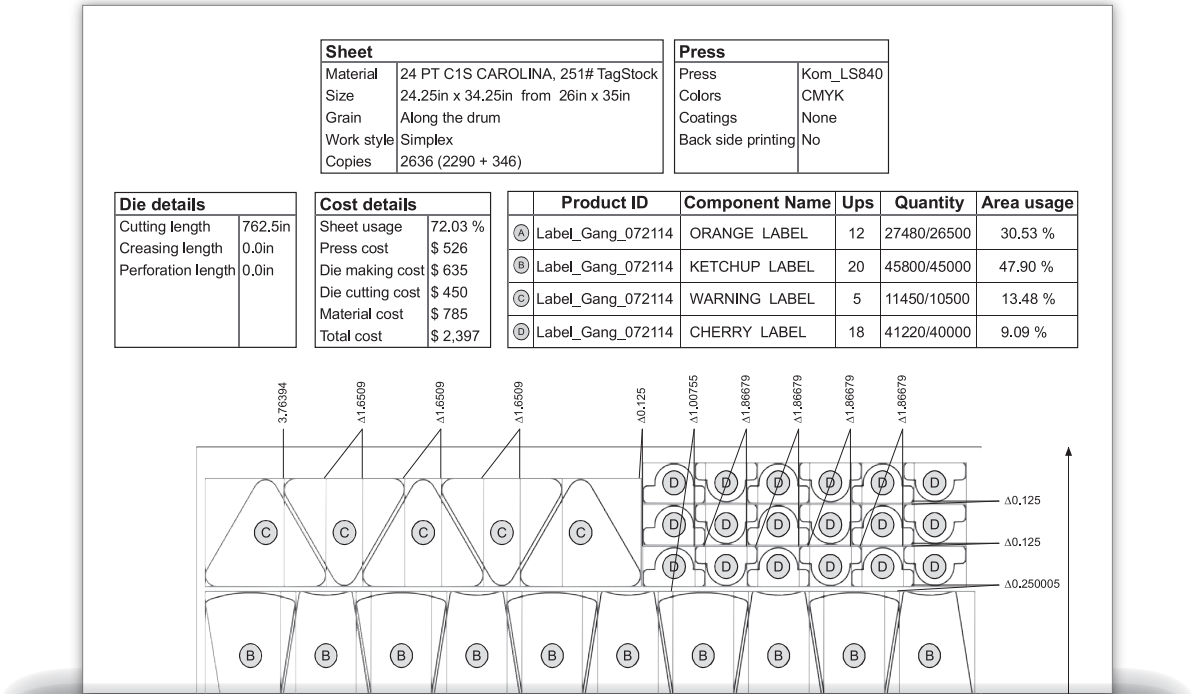
All jobs created in Imp can be saved to a database thus providing easy search and data back-up options. More over the user can attach any amount of metadata to these jobs which makes job tracking and management easy.

AUTO ASSIGN ARTWORKS

Hundreds of PDF artworks can be assigned automatically to their respective places on the layout based on the naming convention. User just has to show the PDF files location.

COMPREHENSIVE REPORTS

Imp provides comprehensive job reports. Automatically dimensioned, detailed layout reports can be generated at the click of a button.



Sheet	
Material	24 PT C1S CAROLINA, 251# TagStock
Size	24.25in x 34.25in from 26in x 35in
Grain	Along the drum
Work style	Simplex
Copies	2636 (2290 + 346)

Press	
Press	Kom_LS840
Colors	CMYK
Coatings	None
Back side printing	No

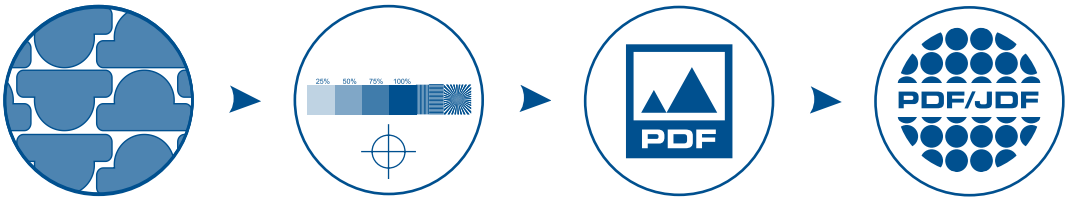
Die details	
Cutting length	762.5in
Creasing length	0.0in
Perforation length	0.0in

Cost details	
Sheet usage	72.03 %
Press cost	$ 526
Die making cost	$ 635
Die cutting cost	$ 450
Material cost	$ 785
Total cost	$ 2,397

	Product ID	Component Name	Ups	Quantity	Area usage
A	Label_Gang_072114	ORANGE LABEL	12	27480/26500	30.53 %
B	Label_Gang_072114	KETCHUP LABEL	20	45800/45000	47.90 %
C	Label_Gang_072114	WARNING LABEL	5	11450/10500	13.48 %
D	Label_Gang_072114	CHERRY LABEL	18	41220/40000	9.09 %

SEAMLESS JDF/PDF INTEGRATION

Being a JDF-certified product, IMP can seamlessly integrate with any JDF-enabled prepress system. It is certified against the JDF 1.3 Layout Creator to Imposition ICS (LayCrImp) standard. IMP also generates cutting and folding data that can automate any JDF-enabled cutting or folding machines.



Imp uses standard Adobe® PDF library to handle incoming PDFs and output of Imposed PDFs ensuring WYSIWYG.

EXPORT PLAN XML

The layout plan can be exported in XML format with complete information about the layouts. This XML communicates the layout data created by IMP software to MIS.

CHECKS

Imp the devil is ever alert to warn you of errors in your plan or imposition.

WARNING

[wawr-ning]
Noun
Something that serves to warn,
give notice, or caution

CHECKS IN PLACE TO REDUCE MANUAL ERRORS

While automatic optimization and layout creation is the essence of the software, Imp allows complete control for the operator to make layouts as he wishes too. Even in such circumstances, Imp adds value by constantly evaluating the solutions created by user against various constraints and conditions. Some of them have been listed below.

BINDING & FOLDING RELATED WARNINGS

The following is the list of binding and folding related warning messages:

Book page size out of valid range for selected binding method

Book block thickness out of valid range for selected binding method

Binding method does not include collection, yet creep is turned on

Number of sections to be gathered is greater than what is allowed for the selected binding method

Number of sections to be collected is greater than what is allowed for the selected binding method

Not enough space in the gutter. Collation marks on the spine will not be visible

Not enough space in the gutter. Collation marks on the jog gutter will not be visible

Cover size out of bounds

This folding template cannot support foldouts

Cannot apply lap on this folding template.

Folding depth of this template is greater than what is allowed for XXXgsm paper.

Using signature with folds for one sided bound component is uneconomical.

Auto creep value may be incorrect for this folding template.

Incorrect signature position for Come & Go workstyle

Binding method does not have collection process.

Binding method does not have gathering process.

Current section depth is not within valid range.

Folding template not compatible with binding method.

Binding method cannot handle the size of this signature.

LAYOUT & IMPOSITION RELATED WARNINGS

MESSAGE	DESCRIPTION
Content not assigned	Some of the job pages which are being imposed do not have content assigned to it. Even if a placeholder or a blank page is assigned, this warning will not be raised.
PDF files missing	A PDF document assigned to some of the pages could not be found. It is not present at the expected location.
PDF document permissions problem	A PDF document assigned to some of the pages being exported, do not have copy permissions. The creator of that PDF document restricted the permissions.
Imported mark file missing	A PDF mark placed on one of the layout is missing. It is not found in the Marks folder.
Sheet/Web goes outside plate dimension	For one or more of the layouts being imposed, the size of the sheet/web exceeds the plate dimension
Front & back pages of different size found	This warning is raised only for bound jobs. It is raised when the size of the recto page does not match the size of the verso page. A similar warning would have been raised in the Bound component editor also.
Collisions	There is overlap between jobs on one or more layout.
No crop marks	No crop marks were found on the layout even though Imp identified that some of the jobs require crop marks.
No fold marks	No fold marks were found on the layout even though Imp identified that some of the jobs require fold marks.
Grain direction mismatch	The grain preference of some of the jobs being imposed has been violated.
Colour mismatch	Not all the colours required for one or more jobs are being printed.
Coating mismatch	Not all the coatings required for one or more jobs are being applied.
Placeholders found	Some of the job pages which are being imposed have placeholders assigned to them. Ignore this warning if an unpopulated JDF is being exported.
Machine constraint breached	The constraints defined by the machines that process the layout have been breached. Any one of the following could be the reason - Size of the sheet/web is out of bounds. - Gripper margin is less than the minimum required value. - Thickness of the paper is not within bounds.

BENEFITS

Imagine the benefits of having an All-In-One system for streamlining estimation, planning and prepress!

PROFIT

[prof-it]
Noun
Excess of revenues over outlays and expenses in a business enterprise over a given period of time, usually a year

BENEFITS

More than six years of constant development and research efforts, tinkering away at the bumps on our way to complete automation of print layout creation, has created a solution we are truly proud of.

- The extent to which our software understands the printers work space and then the way it uses this information while layout planning, we believe, is way beyond competition. Certainly, more and more jobs can be processed through estimation to layout creation in a hands free method.
- The science of layout planning has been exacted to such an extent that separate imposition or print layout creation software is not required in Prepress. Estimators are able to generate accurate layouts which only require linking of content PDF in prepress.
- Print shops that do a wide variety of jobs, benefit from using a single application to process their book, commercial, folding carton or label jobs. Learning and maintaining multiple applications for different types of jobs is no longer necessary.
- In die-cut jobs, all other packaging solutions use a CAD application to prepare step & repeat nested layout, and then a separate application is required to incorporate an artwork into this layout. InSoft Imp's methodology is unique. It starts with 1-Up die line and generates efficient print-ready layouts, which can provide the necessary data for die-creation as well as plate creation.

Many MIS providers have understood these benefits and have tightly integrated our product with their MIS.

FEATURE	VALUE
Planning & optimization	Unique solution for die-cut and rectangular jobs – simplifies complex tasks.
Webpress planning & imposition	The one and only fully automated software.
Reel to sheet derivative	Higher level of optimization in choosing paper from reel – saves paper.
Estimation	Helps generate quick estimates of nested and bound jobs.
Bleed resolutions	Fully automated – saves time and prevents human errors.
Flat rectangular jobs ganging	Uses same interface with equal ease.
Two-sided die-cut jobs	Executed with ease.
Single application for generating layout for print & die making	Exports JDF/PDF for print and DXF/CF2/PDF for die making.
Last-minute layout editing	Flexible, easy and quick.
Integration with workflows	JDF / PDF compatible with all major workflows.
Importing existing dies	Legacy dies can be reused.
Die database	Searches for matching die from inventory of dies for reuse.
All-In-One	Single application for all kinds of print jobs. Ensures small learning curve.

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TESTIMONIALS

Stop imagining and feel the actual benefits our customers are experiencing!

ACHIEVE

[uh-cheev]
Verb
To bring to a successful conclusion;
accomplish; attain

FOLI DE MÉXICO, NAUCALPAN DE JUÁREZ, MEXICO

*Metamation's Imp software has become an invaluable planning tool for our organization in past two years. Now **estimating has becoming an exact science**. With Imp software young estimators can deliver accurate plans as many years of experienced estimator would. Because for our variety of functionalities, Metamation solution was a perfect fit, and we are aiming to integrate it with our ERP system so it could be the **heart of our planning, estimating and imposition**.*

- Angel Viveros

COT HOLDINGS LIMITED, BARBADOS, WEST INDIES

*Metamation has streamlined the planning function and enabled automization of some prepress processes. Efficiency and accuracy can now be achieved when calculating ganged jobs by using the Metamation Ganging Module. Whereas it may have taken an hour to manually calculate **ganged jobs, this can now be done in as little as 10 minutes using the Metamation Ganging Module**.*

*It has also become simpler to process nested jobs and create dielines for diemaking. This has decreased the overall processing time for packaging work and has realized **significant savings especially in stock (paper) usage**.*

*The team at Metamation have been very helpful to COT during the trial of the product and in after service. The product is also very economical when compared to similar products COT has investigated. Also the **features are more advanced than the other competitive products** especially in relation to nesting.*

- Dana Moore

GRAPHIC VISUAL SOLUTIONS, GREENSBORO, NC, USA

*Metamation has proven extremely valuable to our organization as a planning tool, as well as an estimating tool. With our mix of packaging and commercial work on offset and flexo presses, our needs were specific in upgrading our imposition capabilities. After reviewing numerous products, we found that Metamation was easy to use and fit our needs. What we found was a tool with a **simple to understand interface, and logic options that made the estimating and planning of our difficult jobs more efficient**. We have also been very satisfied with the level of customer service that we have received during our implementation. The addition of the **die library has enabled us to catalog and select dies more easily**. Choosing Metamation was an important part of our strategy for an efficient overall workflow.*

- Jack E. Brown

PRAGATI OFFSET, HYDERABAD, INDIA

We had deployed Imp five years ago in our commercial print operations. A wide range of products - books, folders, calendars, stationery, among others - are planned efficiently by Imp. We have also set up a system in which information about products goes from our SAP ERP system to IMP, which eliminates re-entry and mistakes. The plan made on IMP is then transferred as a JDF to our Esko workflow system - again eliminating any manual entry of imposition details.

*We have also implemented IMP in our packaging unit's workflow over the last 18 months. Imp has a strong feature set for non-rectangular jobs and the **nesting created by it is great**. The feature of reel to sheet allows us to plan job seamlessly across available substrate - whether in sheets or reel form. This has allowed much more efficient use of our paper stocks and allowed us to **reduce our inventories by about 30%**.*

With Imp the complex job of creating nested layouts has become efficient and quick. Our CAD department now has more time to focus on creating better folding cartons designs.

- Harsha Paruchuri

D&L PRESS INC., PHOENIX, AZ, USA

IMP has been an effective tool in helping our company create efficient, accurate layouts for multiple presses that all have very different demands. ***We were spending as much as six hours per day creating layouts manually and with IMP we hardly spend an hour per day with the same amount of work****. Our Pre-Press department now has the time to be proactive with layouts and other important tasks like color and more efficient scheduling instead of just creating layouts in a hurry to keep jobs moving. We have been* ***impressed by the IMP team in every way****, they were helpful in training us and have been responsive to our inquiries. I would recommend IMP to anyone looking to automate their shop. Aside from all of these benefits, they are also affordable, the initial cost to get all the automation that IMP offered was less than other comparable solutions.*

- Andrew Pinch

PRINTVISION, AHMEDABAD, INDIA

IMP has automated our entire job planning, ***completely eliminated the imposition in pre-press, increasing efficiency, productivity and accuracy****. The feature of defining grain direction in planning stage and the comprehensive production reports have fully streamlined our entire production process right from Job estimation to finishing.*

- Falit Pandya

RAMYA REPROGRAPHICS, BANGALORE, INDIA

IMP has ***drastically reduced our Job Planning time*** *and has streamlined our pre-press production. The* ***learning curve was very small*** *and entire team is happy & comfortable with this unique solution.*

- R. Narendra

MWN PRESS, CHENNAI, INDIA

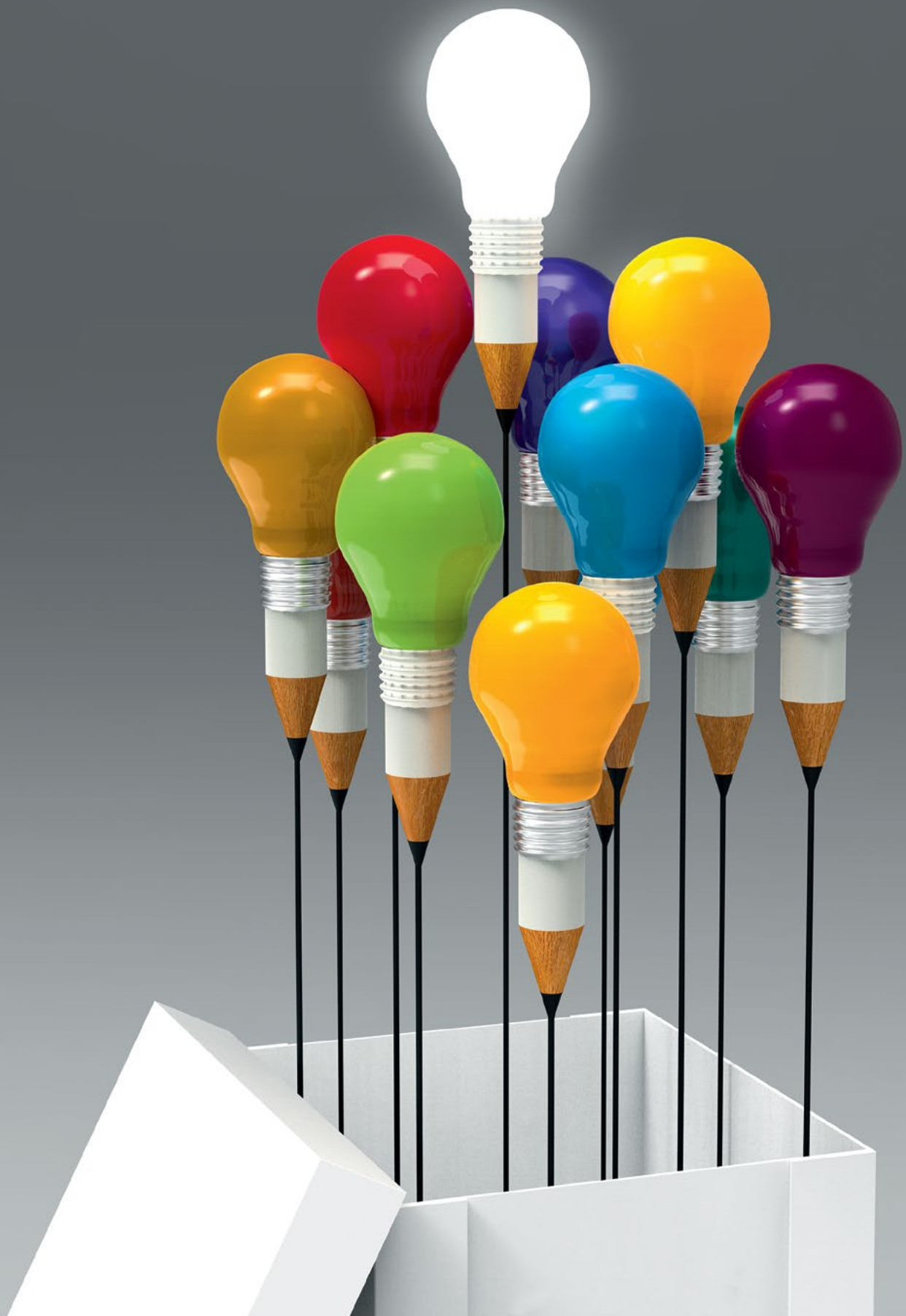
After 6 months of use IMP has become the ***back bone of our prepress set up****. I checked with my pre-press team on their experience using IMP, they said that they are a lot more relaxed after IMP.*

To me, IMP's ***greatest value lies in its acting as a mistake filter****; that is where I see the pay back for the product. I see a great potential for the product.*

- NR Kumar

InSoft, established in 1996, has been involved in the graphic arts and e-publishing software business since 2007, through its subsidiary, Metamation, and has been developing innovative software solutions for printing industry. Since August 2014, InSoft has assumed direct charge of the graphic arts and e-pub related software products.

With Imp, the aim was to completely automate planning & pre-press production while eliminating manual imposition and nesting. Our graphic solutions are used across the entire range of jobs printed by offset & digital printers such as book printing, commercial jobs & packaging with support for both sheet-fed & web presses. The powerful planning engine can be an ideal tool for creating quick estimates of complex nested layouts, thereby saving time and drastically increasing the efficiency.



Metamation

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