TRAPPED IN YOUR OUTDATED DIE-LAYOUT CALCULATION SOFTWARE?

Imp

Complexity Simplified!

Rapid Print Layout Creation & Estimation

2016
INTERTECH™
TECHNOLOGY
AWARDS

FOR INNOVATIVE EXCELLENCE

OFFSET | DIGITAL | LARGE FORMAT | FLEXO

WORLD'S FIRST & ONLY

Imp-Pack is the only software that completely automates the process of layout creation for non - rectangular jobs, whether they are die cut or profile cut. The software supports a wide range of printing press - conventional sheet-fed or web-fed offset, VSOP, digital cut-sheet or continuous fed presses, large format flatbed UV or roll-to-roll printers!

All through One Interface!
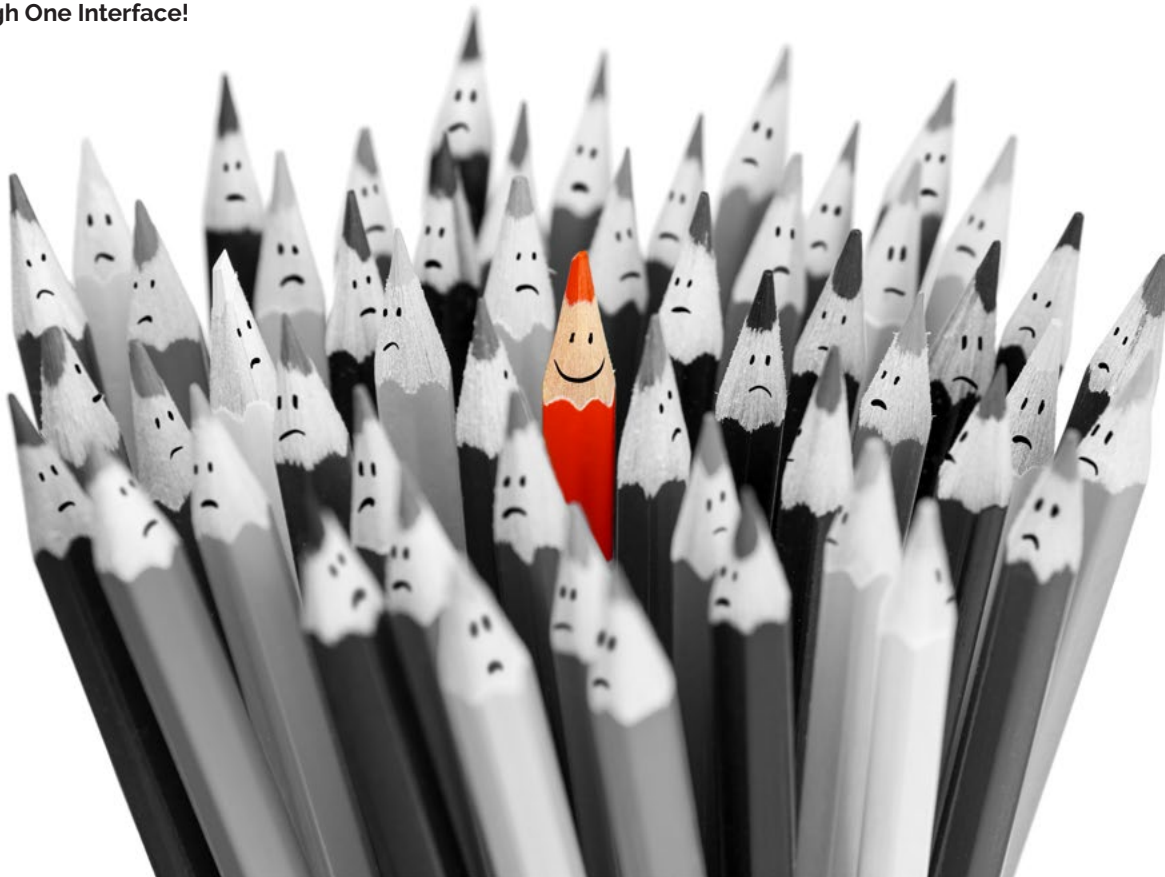
Generating a layout plan for a die-cut job is a complex task. It requires simultaneous tweaking of multiple parameters to minimize cost and increase throughput. Imp-Pack is the ideal tool that will empower an estimator to generate accurate estimates based on concrete plans. Moreover, the layouts created at the estimation stage can be edited any time later during the planning or prepress stage to generate outputs for your printing or die-making.
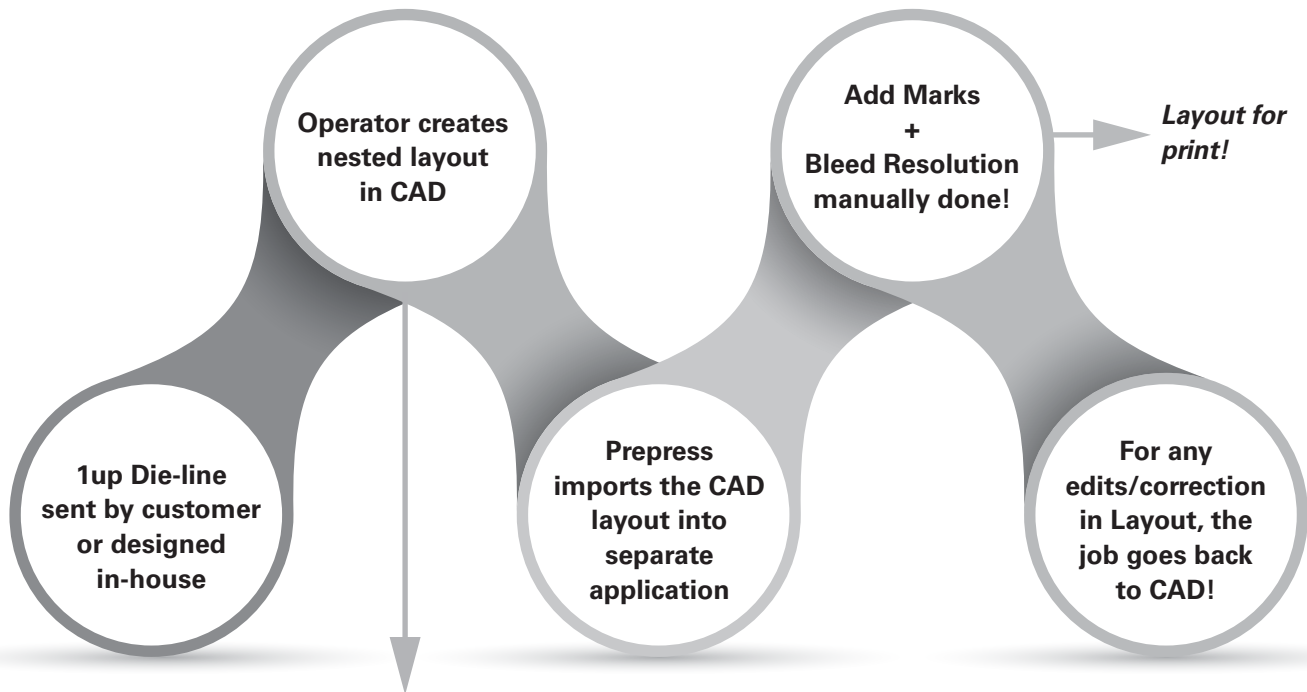
> *With Imp Software estimation has become an exact science. **Young estimators can now deliver accurate plans as many years of experienced estimator would.** We have **integrated Imp** with our **Dynamics AX ERP** system from **MPS Graphics, Denmark.** It is the **heart of our planning, estimating and imposition.***
>
> - Angel Viveros, Foli De México

CONVENTIONAL WORKFLOW

The conventional workflow of creating layout plans for die-cut jobs revolves around the CAD application. The operator manually finds out the optimum sheet size that fits the step and repeat pattern. The estimator needs this layout information from CAD to prepare the final quote!
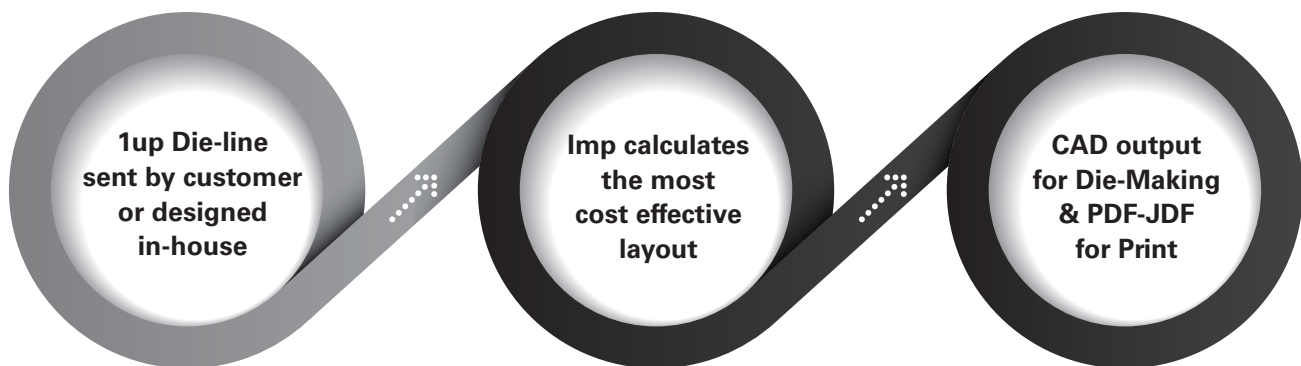
Once approved, the plan from CAD goes to prepress where PDF artwork and marks are assigned to the layout in a separate application. In case of any edits in the layout, the job goes back to CAD and process is repeated.

Operator creates nested layout in CAD

Add Marks + Bleed Resolution manually done!

Layout for print!

1up Die-line sent by customer or designed in-house

Prepress imports the CAD layout into separate application

For any edits/correction in Layout, the job goes back to CAD!

Operator manually decides the most optimum sheetsize, existing die-reuse, emboss, braille, foil costs and single cuts! Output for die-making is sent from the CAD.

DOES YOUR ESTIMATOR DEPEND ON A CAD OPERATOR?

SIMPLIFIED WORKFLOW WITH IMP-PACK

1up Die-line sent by customer or designed in-house

Imp calculates the most cost effective layout

**CAD output for Die-Making & PDF-JDF for Print**

BREAKTHROUGH INNOVATIONS

Imp-Pack offers full automation for creating layout plans for die-cut jobs. Software intelligence is the key to achieving such levels of automation. Sophisticated algorithms, advanced software technology and cutting edge engineering embodied in Imp give it the power and productivity that goes to work for you. **Here are a few of the many unique intelligence capabilities of Imp-Pack software:**

HOLISTIC COST BASED OPTIMIZATION

As minimizing overall cost of the final printed product is the optimization goal, Imp will consider multiple scenarios to strike the right balance between independent cost functions.
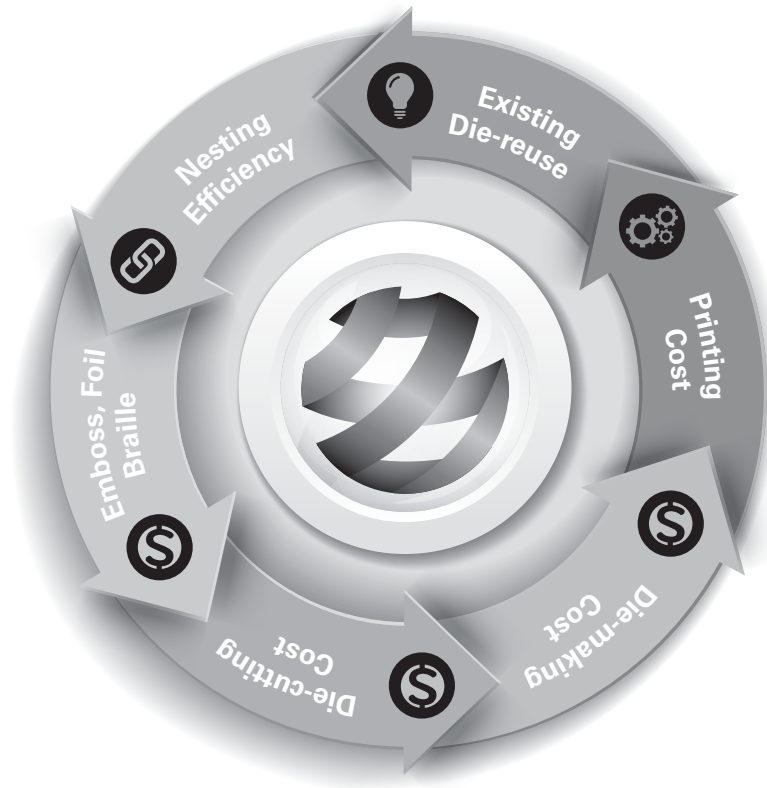
ADAPTIVE INTERLOCKING PATTERN

When constrained by an available list of sheet sizes or reel widths, it is critical to consider multiple interlocking patterns for a single job, as shown in the illustrations below. Imp-Pack dynamically generates the repeat pattern that is best for that sheet size.
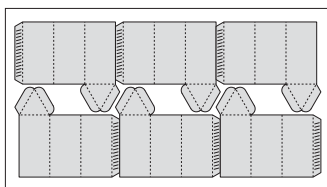
*Interlock pattern ideal when the fit is tighter in the vertical direction*
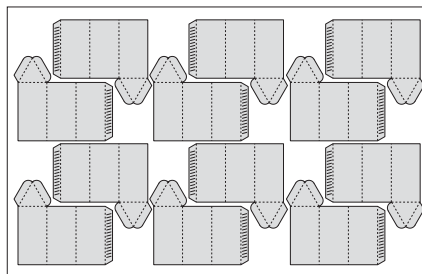
*Interlock pattern ideal when the fit is tighter in the horizontal direction*
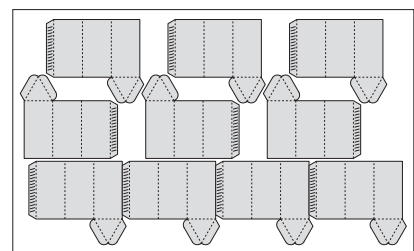
*Multiple repeat patterns within the same sheet*

INTELLIGENT SINGLE CUTS

Just mark non-critical region(s) on the job and the software will know where it can collapse the gap between jobs on the layout to make it a single cut. This important automation step is either absent or not so automated in competing solutions, which means that the layout created by other software solutions often requires manual intervention.
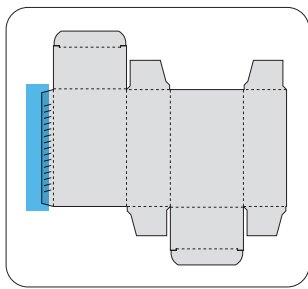
Marking non-critical regions like Glue Flap in this example
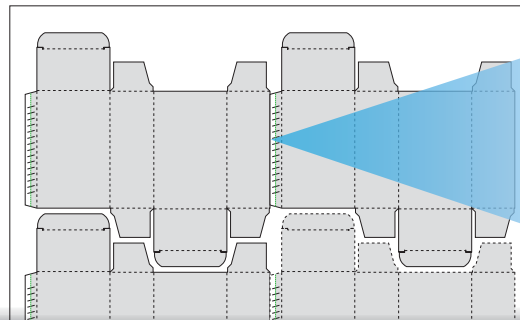
Auto plan layout
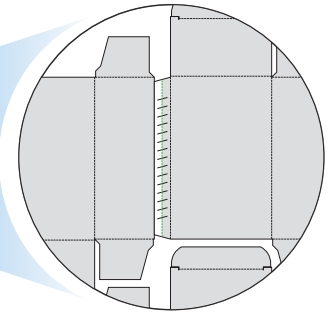
Imp automatically plans the Glue Flap regions as single cut

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-Pack will know how to resolve bleed overlap conflicts on the layout. **Absolutely no further manual intervention is required.**

No matter how complex the overlap regions are, Imp-Pack can split the space between profiles accurately & automatically.

> ❝ *We are **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 Imp was an important part of our strategy for an efficient overall workflow.* ❞
>
> - Jack Brown, Graphic Visual Solutions, USA

DIE-LIBRARY

The Die-Library software is capable of comparing unfolded outlines of new jobs with thousands of jobs in the database and finding close matches. User can superimpose the geometries and graphically see how close the match is.


BENEFITS OF IMP-PACK

ACCURATE & SPEEDY ESTIMATES: In a few seconds, your estimators can graphically evaluate the best way to lay out a job, while minimizing printing and finishing costs. The estimators can evaluate the trade-off between nesting efficiency, press time, die-making cost, braille / emboss / foil block making costs to the last penny!

SAVE TIME IN CAD & PRE-PRESS: Once Imp-Pack is in place, the CAD department can let go of creating step & repeat layouts and focus on design. Similarly, the prepress department can let go of imposition and focus on PDF and content handling. Imp-Pack can be that single application which will generate output for printing as well as die-making / cutting. There is no need to reproduce layouts generated at estimation stage later in CAD or prepress department.

0% CHANCE OF MISSING A REUSABLE DIE: Now that searching based on outline geometry is possible, maintaining and searching die-database was never this easy. Estimators & planner can search the matching die from database in a single click!

GANGING

Imp-Pack 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 of different shapes, quantities, colors & coatings across multiple sheets/reel sizes and presses.
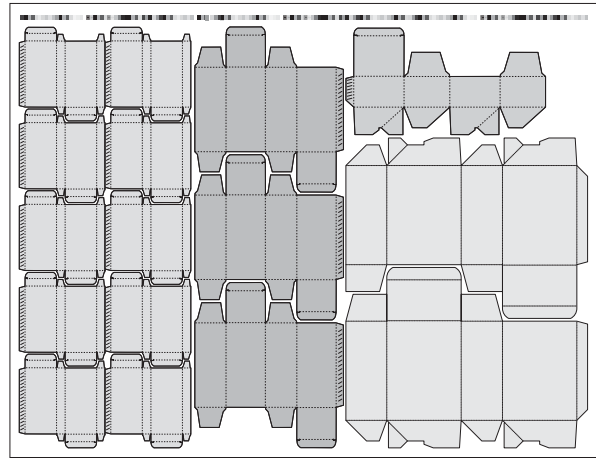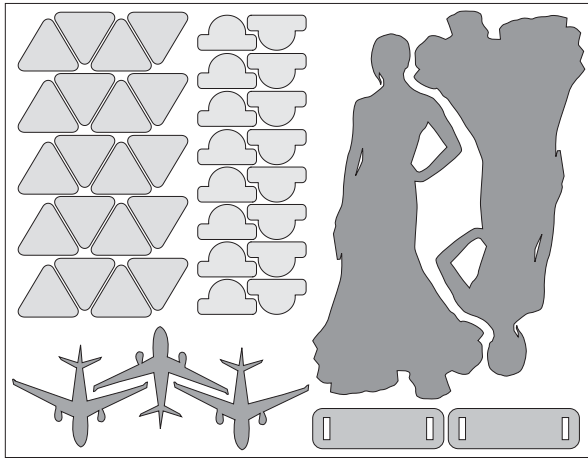
Imp-Pack can also be used to optimize jobs on Large Format Flatbed or Roll-to-Roll Digital Printers. The media cost can be defined per sheet and Imp-Pack can plan jobs on these big sheets. Die-line output can be DXF/CF2 or HPGL for your digital cutting machines.

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-Pack can plan these different variants with different numbers of ups to achieve the required quantity on an existing step & repeat layout.
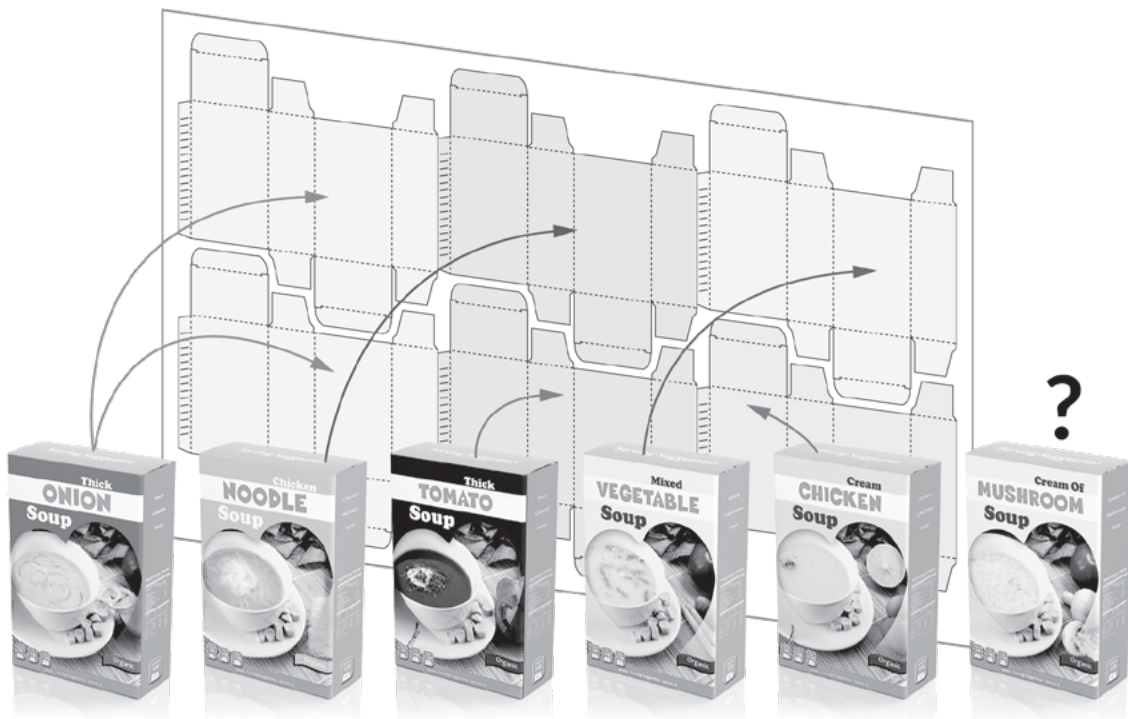
ONE INTERFACE

Imp is the only software in the world to offer layout planning and imposition for wide range of printing technologies - Conventional Sheet-fed and Web-fed offset, VSOP, Digital Cut-Sheet and Continuous-fed, Large Format Flatbed UV and Roll-to-Roll Printers.

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