



S Print *One*

Minimum-cost gang forms
for offset printing

A convincing technology

PerfectPattern sPrint One is your job ganging solution in offset printing. Its innovative technology not only enables sPrint One to calculate gang forms based on minimizing your production costs, it even calculates an entire production plan!



Ganging printing jobs...

To make a long story short ganging printing jobs is about one important question:

Which jobs fit together best?

You have already deeply acquainted yourself with this question, so you know there are many different aspects to take into account. Ganging printing jobs is a complex and challenging task. It is the effective way to lower your production costs.

PerfectPattern sPrint One is the mathematically optimal solution, that manages this task taking all important aspects into account.

...at the press of a button

At the press of a button sPrint One calculates gang forms as part of a production plan covering the entire actual job pool. This pool can include any number of printing jobs with a wide range of different properties. Without any need of pre-sorting, all gang forms are being calculated **within seconds**.

The resulting production plan has **minimal production costs**, **respects priorities** and is **optimized for your machinery**.

Production planning

Using sPrint One, you can define a start schedule for every printing device, that determines when it is available for production. sPrint One proposes gang forms, that respect this schedule.

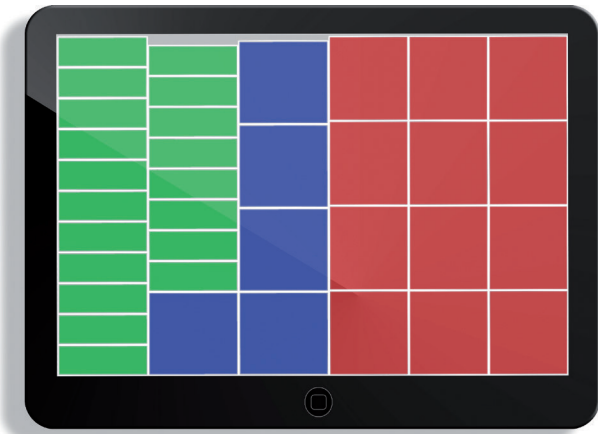
Urgent gang forms are always proposed earliest in the production plan. The supervisor manually decides which of the proposed forms to confirm for the production. The respecting jobs of the remaining gang forms stay available for further optimization.

In particular sPrint One provides the opportunity to plan your production **dynamically** by confirming only the forms needed for production at the very moment.

Priorities

The actual priority of a printing job is the result of two different sources, first the job's due date and its estimated production time, second a manually defined priority-index for each job.

As a consequence, sPrint One ensures not only, that urgent jobs are processed first, but also that important jobs are processed earlier than standard jobs with the same due date.



Gang form calculated by sPrint One and visualized on a tablet.

Minimizing costs

sPrint One perfectly balances paper costs and machine setup costs and therefore minimizes the production costs. It decides for you when it is efficient to prefer paper waste over setup processes and the other way around.

In particular it chooses the best combination of machines and suitable papers for each gang form, furthermore the most cost-effective working styles are applied.

Paper configuration

Any number of paper types can be defined. In addition, for every paper you can specify applicable working styles, such as perfecting, work and turn, work and tumble etc. For each gang form, sPrint One automatically picks the paper and working style that fits best regarding priorities and costs.

Layout settings

sPrint One provides a broad variety of settings specifying the layout of the gang forms.

For example you can *mark certain regions*, which are used for marks, sheet brakes, color bars etc., you can *limit the layout complexity in regard to the cutting process*, you can specify a *threshold for color gradients*, *define working styles*, *spot colors*, *grain direction*, *gripper edges* and many more.

Machine configuration

The machine configuration of sPrint One covers all types of machines whether sheet-fed offset or web offset. It allows detailed customization for every individual machine regarding costs and durations in an easy and effective way.

For example you can specify the production speed for different paper types or even define the expenses caused by a single printing unit per sheet.

Your benefits in a nutshell

Reduction of costs

By balancing setup costs and paper costs, sPrint One always finds an effective production flow.

Production planning

sPrint One not only calculates single gang forms, but also creates entire production plans with respect to the priorities and parameters of each job.

Overall optimization

A production plan created by sPrint One involves all current jobs. If new jobs are added to the pool, sPrint One updates the production plan accordingly within seconds.

Avoiding waste

The most urgent jobs are always earliest in the production plan. Lower-priority jobs are used to avoid waste.

Increasing the number of jobs enhances the overall savings potential.

Short reaction times

Due to a calculation within seconds, you can update production plans any time. Now you can smoothly handle unexpected overnight jobs, machine failures etc.

Real-time optimization

As part of an up-to-date production plan, every gang form can be offered on demand. In this way, you gain maximum flexibility requiring minimum planning effort.

No pre-sorting

All kinds of printing jobs can be pooled without any need of pre-sorting the jobs by due date or paper type.

Cost transparency

With its accurate cost model of the printing process sPrint One supports your calculation as well as your data collecting for post calculation and controlling.

Technical constraints

Numerous technical constraints are considered enabling sPrint One to meet the exact requirements of your production.



Test sPrint One at

www.PerfectPattern.de/druck/sprint-one/demo



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