Production Planning – Presetting the Press

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Print is an independent, highly integrated system for planning production and presetting the press. Print is divided into the following system components: • Print dispo (rotary press planning), • Print preset (rotary press presets), • Print track/report (production visualization and statistics) For output control, EAE has developed another component: • Print Image

Determining the resources

Selecting the book structure

Planning the page list

Selecting the production option

Completing the planning

Five steps to complete production planning

Your benefits:

- Cost reduction by fast and efficient production planning
- Cost oriented and production efficient resource planning
- Cost savings by optimal utilization of the press
- Optimizing staff activities by printed worksheets for the make ready process
- Reduction of start-up waste by self-learning and self-optimizing press presetting
- Online visualization and transparency of production processes
- Savings on ink, paper, time and money

Print dispo

You use the system component Print dispo for resource and production planning in the printing house. Just a few steps are needed for optimal utilization of your equipment and time capacities:

- Product Planning
- Production Planning

Product Planning

From prescribed customer-specific or product-specific print catalogues, you select the number of pages and book structure needed for the object being printed. You define the desired common and/or alternation pages and determine the selected colors for pages. If there is a conflict in the desired color scheme, Print dispo points it out and offers alternative planning. Ideally you use a sheet planning system in the publishing house. That is where the print product is planned, so it can then be entered into Print dispo, meaning the product planning has to be done only once.

Production Planning

On this level, Print dispo transfers the requirements previously defined by the publishing house / customer to the rotary press (one or more production runs). Print dispo also allows you to include so-called production templates in the planning process. These provide forward-looking resource planning based on standards (typical publication days/weeks, etc).

The data of the actual planning can be integrated later. You can now define partial runs, start-of-printing times, and reserve the printing and/or production time computed by Print dispo for the planning of rotary press resource capacities.

On the basis of the predefined book structure and color imposition of the pages (= color placement), Print dispo computes the optimum production option for the rotary press. In other words: Print dispo automatically selects the correct production option and the corresponding color imposition of the printing couples. It also displays overbooked colors.

After Print dispo has found the optimum production option, the system displays the color imposition for the individual press cylinders.

Since customer requests for the printing sequence of individual colors vary, colors on the cylinders can be changed manually with the EAE solution. The computational algorithms used for this purpose can be administered by the customer and computation of the ink preset valves is almost one hundred percent.

Print preset

Print preset makes it possible to preset all the units that can be controlled remotely by the control panels of the rotary press. The existing pre-settings are kept in a database and can be visualized and edited.

According to the specific requirements of your company, we configure the presetting server for:

- ink zone values
- registers
- damping
- web tension
- turn bars
- folding jaws

The great efficiency of the self-learning presetting system is also evident with repeat production runs or with known ribbon guides. In these cases you can load and apply the entire or partial results from the production planning process and also the presetting values from previous production runs from the Print database. In this situation, Print preset distinguishes between the following cases:

- a one-hundred-percent repeat production, also in content
- repeat production based on production options which differ in content
- ribbon-related, and thus web section-related pre-settings
- pre-settings based on mean values

Print track / report

The system component Print track / report has its own tracking and reporting function. The web-based visualization capability of Print track gives you an overview of your production from any workstation in the printing house.

The visualization is implemented via the EAE messaging system Info and is used to the current production process of the press. In the familiar traffic light colors (red, yellow, green), Print track implements the following process steps (a selection) via a clearly understandable interface:

- Product
- Print edition
- Production start
- Planned production end
- Circulation
- Overruns
- Time variance
- Press status