TRADITIONAL SCREEN PRINTING

AUTOMATIC PRINT FILE PROCESSING

Textile screen printing is a traditional printing process with many advantages when it comes to high print runs, color brilliance and wash resistance. Direct printing on textiles is just as common as transfer printing. Despite all the advantages, the advance of individual digital printing is also noticeable here. This requires a rethink with regard to efficient production processes. A large European manufacturer of clothing labels (no label look) and patches for workwear has already switched to a digital, automated workflow.

Challenges become strengths

Creating business growth potential
Switching from manual work to an automated workflow increases job throughput and enables growth potential and revenue increases.

Time savings in post-production
Fully automated adding of job information to each artwork ensures clear and fast identification of the job after printing of the gang form.

Processing time: 2 minutes per job
Thanks to automation, print file processing per job is reduced from an average of 1.5 hours to 2 minutes.

Quality management
Standardized processes ensure that artwork is produced to a consistently high standard, regardless of the operator's level of knowledge.

More efficiency through automated processes

Collecting form creation
Thanks to a highly automated nesting solution, artworks are combined into collective forms across jobs in screen transfer printing. This saves material and reduces production costs.

Integrated workflow solution
Transfer of the graphic file (e.g. Corel-Draw) and processing into a production PDF. All layers and spot colors are retained. Additionally required spot colors for white or adhesive are generated automatically.

Production optimized files
Special production requirements are automatically identified and additional spot colors are generated, e.g. for thin elements, lines and texts.

Flexible production
Production files are processed on the basis of information (e.g. substrate, format, color, quantity) from the job ticket.

Initial situation with conventional processes

- Each artwork is created and checked manually using graphics software. A separate layer is created for each color / information e.g. design, white, adhesive, dye block and spot colors

- Time-consuming creation and sending of a proof with all order information such as number and name of colors, print run, format

- Employees manually calculate and create collective forms for the most time- and cost-saving production possible

- Each layer is manually converted into a black separation and exported separately for print production

Advantages through digitized, automated processes

- Automated transfer of the graphic file, identification of elements with special production requirements and conversion into a production PDF

- Based on the job ticket, the proof with all data is automatically generated and sent to the customer

- Cross-job and fully automatic nesting, taking into account all production parameters, with maximum substrate coverage

- Automatic conversion into black separations and output of single PDFs per spot color as well as an overall view of the artwork

Optimization of processing time per job from an average of 1.5 hours to 2 minutes.