Imposition Made Easy

Imposition for the Spire Color Server

Print On-Demand Systems Group

Creo Corporation

Updated for CSX2000 Version 2.0

Powered by ULTIMATE technology

SPIRE

www.creo.com/spire

Spire Color Servers

The Most Productive Color Servers on the Market

Spire Color Servers, driving Xerox DocuColor 2000 digital printers, offer a wide range of unique and outstanding features.

Highlights include:

- Extremely fast RIP, enabling proccesing printer at rated speed
- Renowned Creo image and color quality
- Easy-to-use Graphic User Interface
- The most powerful Variable Information solution in the industry

This booklet describes and demonstrates another powerful feature of the Spire Color Server - **Imposition**.

Creo has joined with Ultimate Technographics, a leading imposition solution provider, to equip Spire users with an imposition tool that provides superior power and flexibility without sacrificing simplicity and ease of use.

Imposition Using the Spire Color Server

Imposition is part of the standard Job Ticket on the Spire color server. Simply double-click on a job in the Spire color server workspace to enter the job programming window. Then click on the Imposition tab, and you are there.

A job does not require any special preparation for imposition. It can be any type of job – PostScript, PDF, VPS, PPML or VIPP. Moreover, the imposition parameters can be set at any time during the job's life cycle: Pre- or post-RIP, when the job is residing in the storage folder or the queue manager, etc.

An important feature of the Spire Imposition solution is its ability to impose post-RIP images. This means that the job's pages are processed independently and the imposition lays out Ready to Print (RTP), independent pages during printing, on the fly. That's why imposition "fine-tuning", like re-setting the margins or the gutters, does not require re-processing.

Another important and unique capability of the Spire color server imposition feature is its ability to impose variable information (VI) jobs. The user imposes VI jobs exactly the same way he/she imposes non-VI jobs. During impositioning, the Spire color server places the variable elements in their correct place on the paper, according to the imposition programming.

One of the difficulties of imposition programming is the relationship between the parameters. Almost every parameter tends to affect the others, making it hard to predict the final result. The Spire color server dynamic imposition thumbnail frees you from this limitation. Every programming change that you perform is reflected immediately, allowing you to validate the programming and ensure a successful print run.

Imposition is Easy Using Spire Color Servers

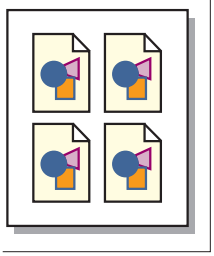
- Easy to use.
- No previous knowledge required.
- A dynamic thumbnail view shows your selected parameters on the printed sheet.
- Preview your final layout on screen.
- The system alerts you to incorrect parameters and prompts you to correct them.
- More than 20 predefined templates for your convenience.

Spire Imposition Features Streamline Production

- Imposition is performed on RIPed files.
- No additional RIPing time is required.
- Crop marks are added on-the-fly during print.
- No additional processes are required for layout changes.
- No need to modify the PostScript files.

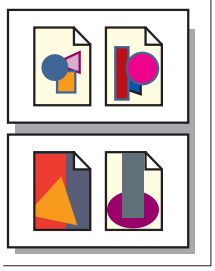
Spire Color Servers Offer Four Imposition Methods

Step & Repeat



A method used for printing multiple copies of the same image, in order to fill a large sheet (e.g. *business cards*).

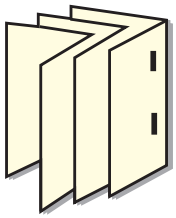
Step & Repeat



Cut and Stack

When the "cut and stack" option is used, and the printed sheets are printed, cut and stacked in one pile, the order of the pages in the stack is the order of the pages in the input file.

Saddle Stitch



A book finishing technique where the book's pages are stitched or stapled along the spine (e.g. *brochures*).

Perfect Bound

A book finishing technique where the book's pages are attached through trimming the spine, roughening the edges of the gathered pages and gluing them together (e.g. *hardcover books*).

Preparing an Imposed Job

Let's prepare an imposed booklet using the unique imposition features of the Spire Color Server.

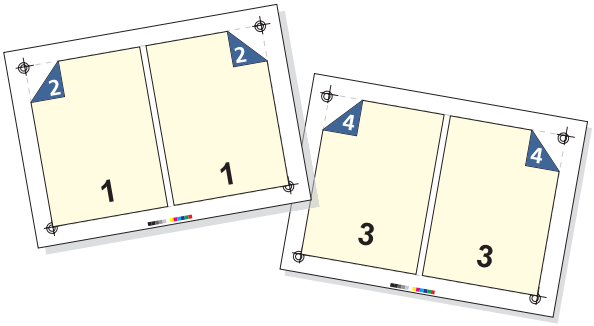
We will use the document you are reading now (Letter size), and impose every pair of pages on each side of the printed sheet (Tabloid size).

Note that since Tabloid is exactly twice the size of Letter, we have no space for additional margins (that can hold the crop marks) or gutters (the space between the pages). Therefore, in order to demonstrate the complete functionality, we will reduce the Letter size document margins.

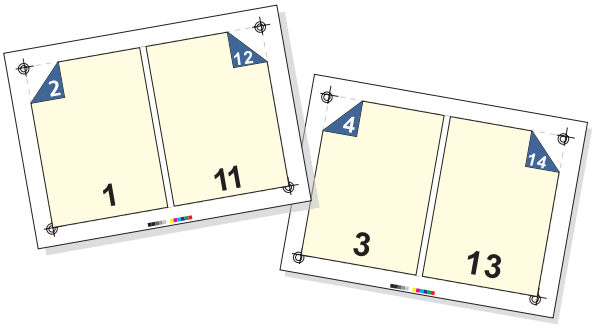
A further exercise can be to use a larger paper size than Tabloid (such as 12"X18" paper). This will enable imposition of a full size Letter, including the required marks and margins.

Here is the expected output for the various imposition methods:

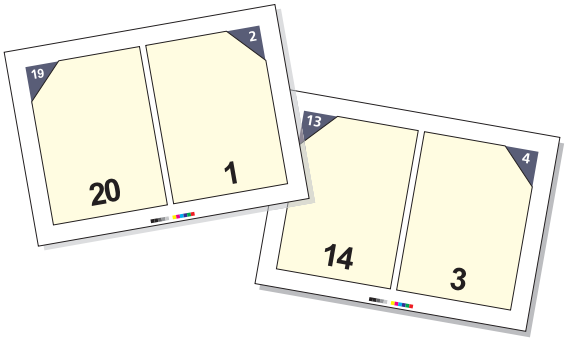
Step & Repeat



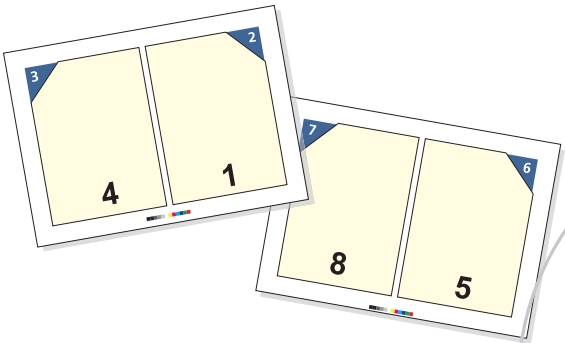
Step & Repeat - Cut and Stack



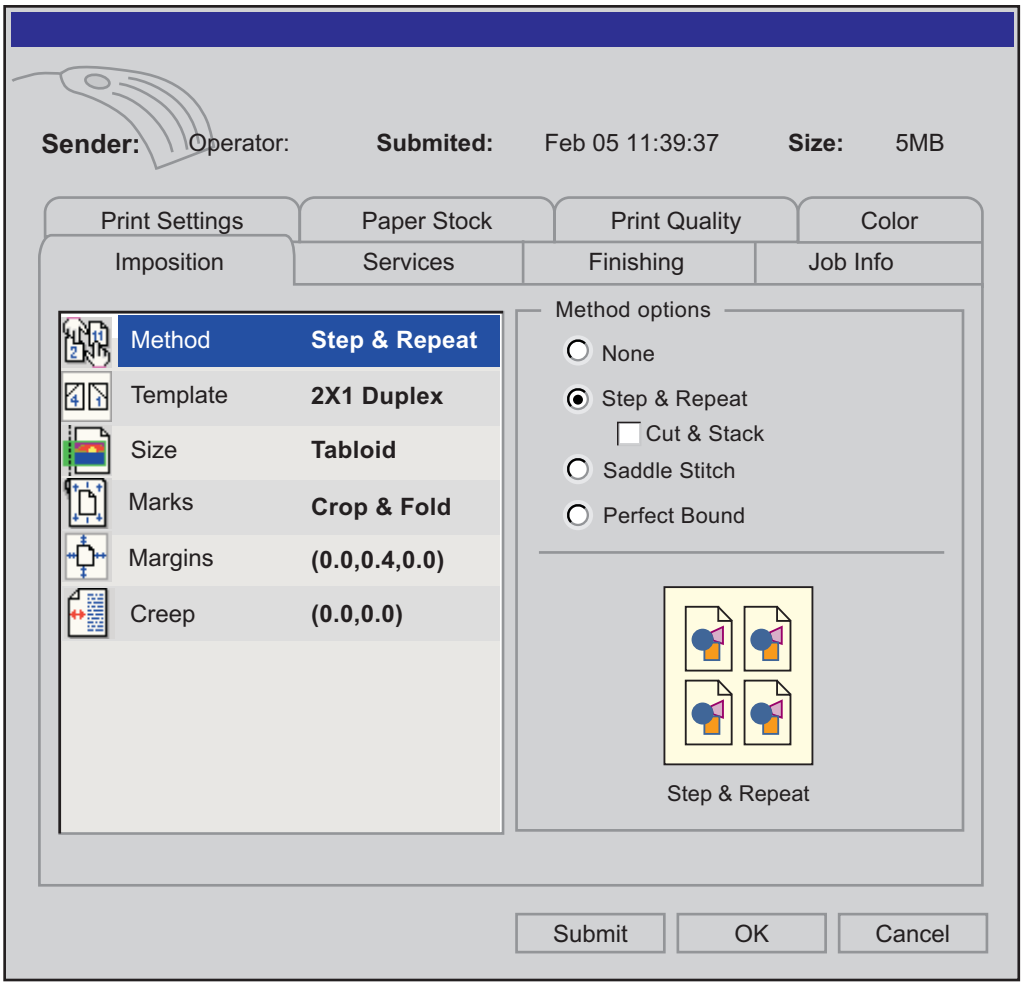
Saddle Stitch



Perfect Bound



The Imposition Menu



Getting Started

Enter the Job Programing

Double-click on the ***Imposition Made Easy.PDF*** file in the Storage Folder,

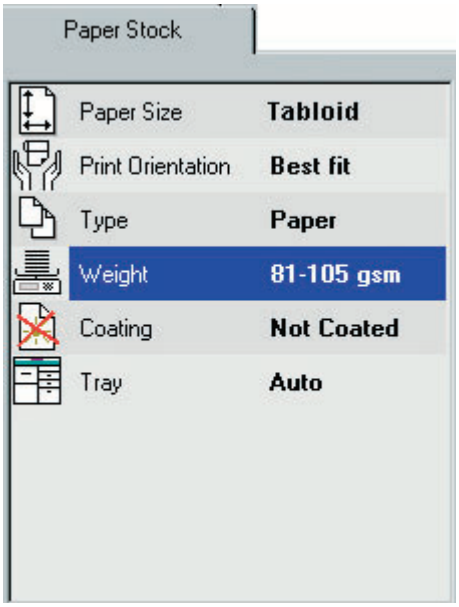
to open the Job Parameters Window

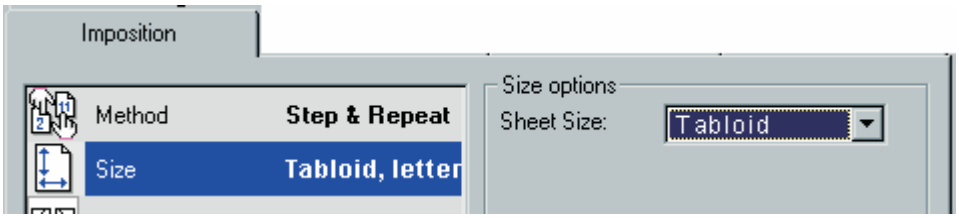
Set the paper stock

Select the Paper Stock tab.

Set the paper Weight and Coating, according to the paper you have.

* The paper size parameter, will be determine in the imposition tab.





Step & Repeat

Program the job

Enter parameters according to the following table:

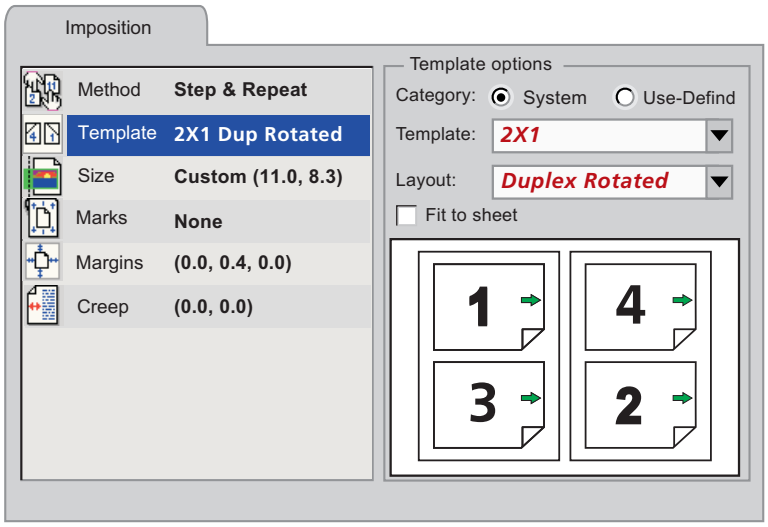
Parameters	**Without** Crop Marks	**With** Crop Marks	**With** Crop Marks & Fit to sheet
Method	Set to *Step & Repeat*	Set to *Step & Repeat*	Set to *Step & Repeat*
Template	Set to *2x1 Duplex Rotated*	Set to *2x1 Duplex Rotated*	Set to *2x1 Duplex Rotated*
Fit to sheet	**Do not** Check the *Fit to sheet* box	**Do not** Check the *Fit to sheet* box	**Check** the *Fit to sheet* box
Trim Size	Change to *Custom* and set: *H = 11.0; W = 8.3*	Change to *Custom* and set: *H = 10.6; W = 8.1*	*Letter*
Marks	Check that *Crop Marks* are **not** selected	**Select** *Crop Marks*	**Select** *Crop Marks*
Margins	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.4* Minimum *Margin* Size = *0.0*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.4* Minimum *Margin* Size = *0.2*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.4* Minimum *Margin* Size = *0.2*

Verify your programming:

Select the *Template* parameter.

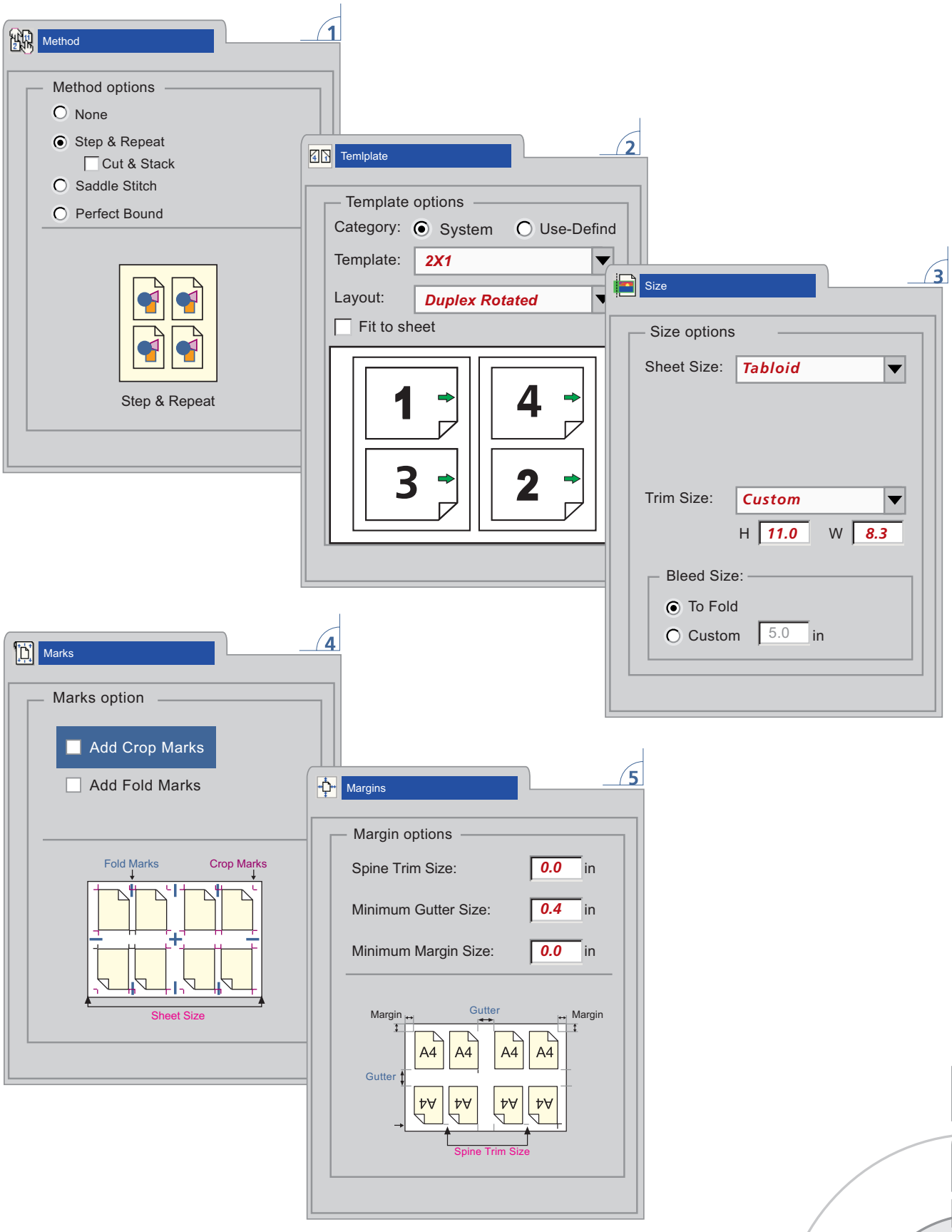
The dynamic thumbnail allows you to visually check your job, while it highlights conflicts in red.

The Letter sized pages should now be placed correctly on the Tabloid sheet.



Submit the job

Press the button to submit the job to the queue.



Imposition made easy

Step and Repeat - Cut and Stack Option

Program the job

Enter parameters according to the following table:

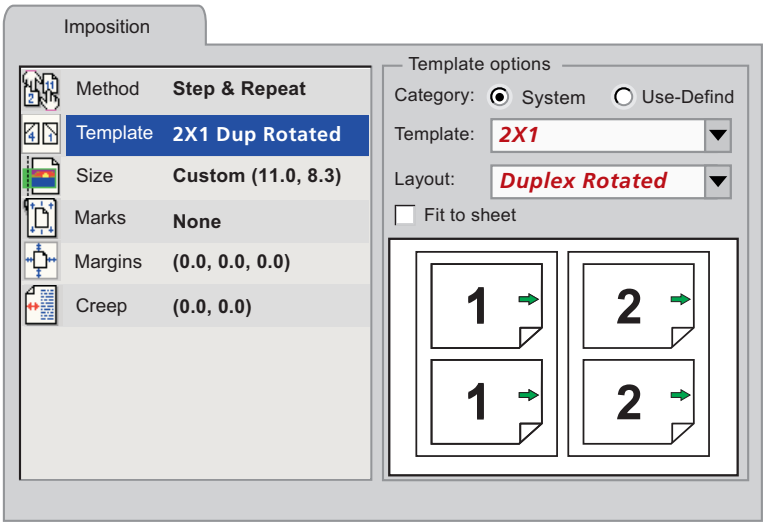
Parameters	**Without** Crop Marks	**With** Crop Marks	**With** Crop Marks & Fit to sheet
Method	Set to *Step & Repeat* and **check** *the "cut and stack" option*	Set to *Step & Repeat* and **check** *the "cut and stack" option*	Set to *Step & Repeat* and **check** *the "cut and stack" option*
Template	Set to *2x1 Duplex Rotated*	Set to *2x1 Duplex Rotated*	Set to *2x1 Duplex Rotated*
Fit to sheet	**Do not** Check the *Fit to sheet* box	**Do not** Check the *Fit to sheet* box	**Check** the *Fit to sheet* box
Trim Size	Change to *Custom* and set: *H = 11.0; W = 8.3*	Change to *Custom* and set: *H = 11.0; W = 8.3*	*Letter*
Marks	Check that *Crop Marks* are **not** selected	**Select** *Crop Marks*	**Select** *Crop Marks*
Margins	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.4* Minimum *Margin* Size = *0.0*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.4* Minimum *Margin* Size = *0.2*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.4* Minimum *Margin* Size = *0.2*

Verify your programming:

Select the *Template* parameter.

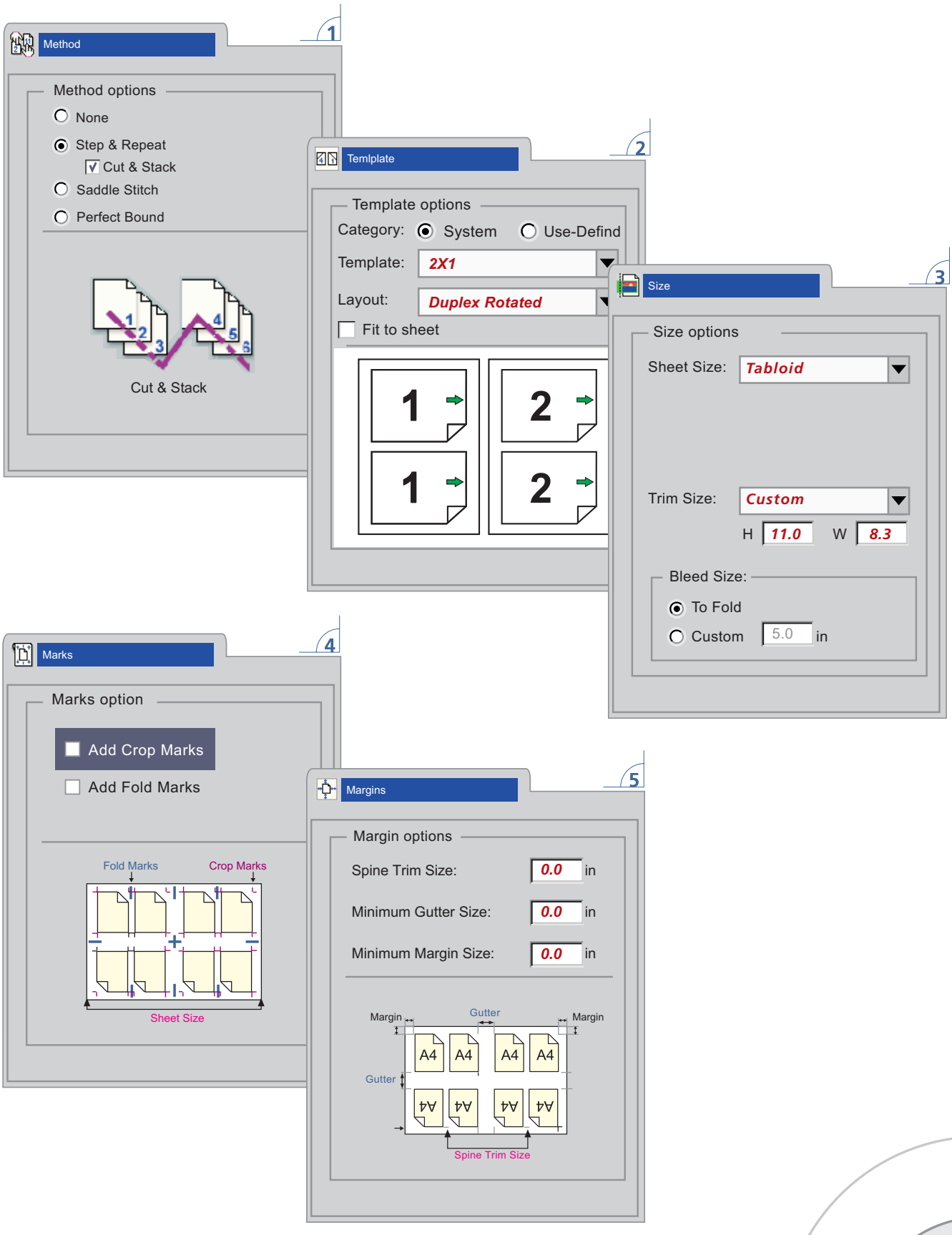
The dynamic thumbnail allows you to visually check your job, while it highlights conflicts in red.

The Letter sized pages should now be placed correctly on the Tabloid sheet.



Submit the job

Press the button to submit the job to the queue.



Imposition made easy

Saddle Stitch

Program the job

Enter parameters according to the following table:

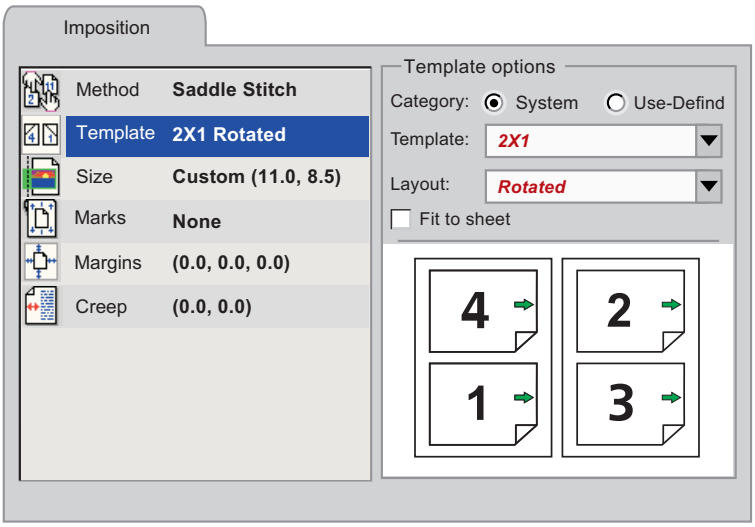
Parameters	**Without** Crop Marks	**With** Crop Marks	**With** Crop Marks & Fit to sheet
Method	Set to *Saddle Stitch*	Set to *Saddle Stitch*	Set to *Saddle Stitch*
Template	Set to *2x1 Rotated*	Set to *2x1 Rotated*	Set to *2x1 Rotated*
Fit to sheet	**Do not** Check the *Fit to sheet* box	**Do not** Check the *Fit to sheet* box	**Check** the *Fit to sheet* box
Trim Size	Change to *Custom* and set: *H = 11.0; W = 8.5*	Change to *Custom* and set: *H = 10.6; W = 8.3*	*Letter*
Marks	Check that *Crop Marks* are **not** selected	**Select** *Crop Marks*	**Select** *Crop Marks*
Margins	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.0* Minimum *Margin* Size = *0.0*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.0* Minimum *Margin* Size = *0.0*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.0* Minimum *Margin* Size = *0.0*

Verify your programming:

Select the *Template* parameter.

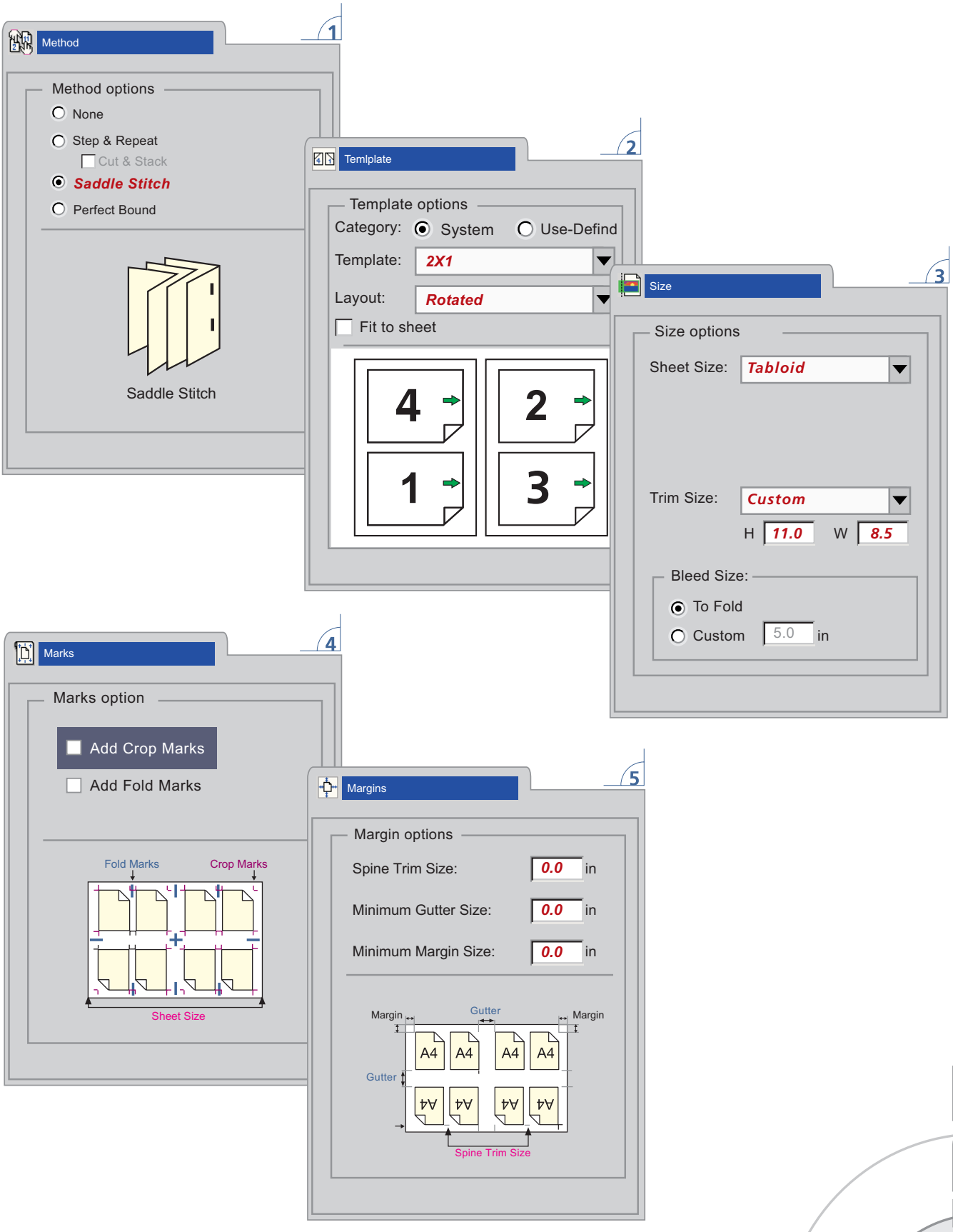
The dynamic thumbnail allows you to visually check your job, while it highlights conflicts in red.

The Letter sized pages should now be placed correctly on the Tabloid sheet.



Submit the job

Press the button to submit the job to the queue.



Imposition made easy

Perfect Bound

Program the job

Enter parameters according to the following table:

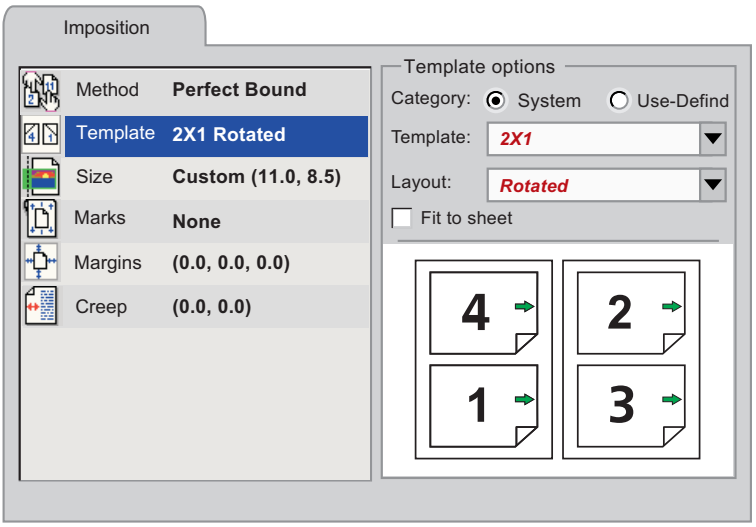
Parameters	**Without** Crop Marks	**With** Crop Marks	**With** Crop Marks & Fit to sheet
Method	Set to *Perfect Bound*	Set to *Perfect Bound*	Set to *Perfect Bound*
Template	Set to *2x1 Rotated*	Set to *2x1 Rotated*	Set to *2x1 Rotated*
Fit to sheet	**Do not** Check the *Fit to sheet* box	**Do not** Check the *Fit to sheet* box	**Check** the *Fit to sheet* box
Trim Size	Change to *Custom* and set: *H = 11.0; W = 8.5*	Change to *Custom* and set: *H = 10.6; W = 8.3*	*Letter*
Marks	Check that *Crop Marks* are **not** selected	**Select** *Crop Marks*	**Select** *Crop Marks*
Margins	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.0* Minimum *Margin* Size = *0.0*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.0* Minimum *Margin* Size = *0.0*	Set *Spine Trim Size = 0.0* Minimum *Gutter* Size = *0.0* Minimum *Margin* Size = *0.0*

Verify your programming:

Select the *Template* parameter.

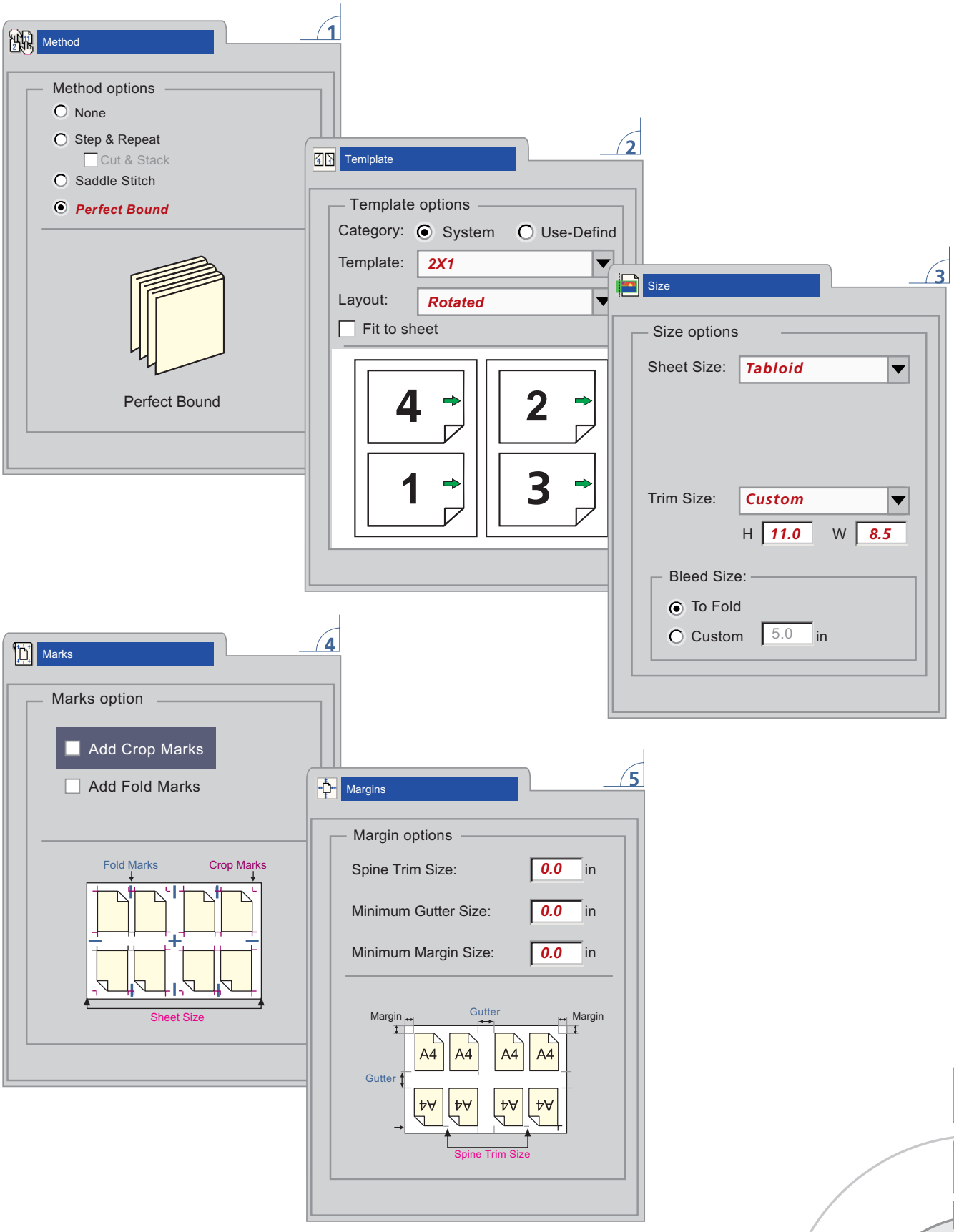
The dynamic thumbnail allows you to visually check your job, while it highlights conflicts in red.

The Letter sized pages should now be placed correctly on the Tabloid sheet.



Submit the job

Press the button to submit the job to the queue.



Imposition made easy

Spire for DocuColor 2000 Series

Technical Specifications

Components

Processor: Intel Dual Pentium III @ 1Ghz
Processor memory: 256 MB
Image memory: 512 MB
Graphic adapter: Super VGA Interface
Network adapter: Dual PCI 10/100 Base-T Ethernet interfaces
Ports: PCI Ultra3 SCSI Interface; 2 serial, 1 parallel, USB
Token Ring - option
System & user disk space: 18 GB
Image disk space: 36 GB
Average RTP storage: 36,000 pages – A4/letter
Average RTP storage VI: 36,000 elements
Peripherals: CD-ROM, floppy 3.5 in., keyboard, mouse
Monitor: 17 in.
X-rite DTP 34

Dimensions

- Height	60.0 cm	23.6 in.
- Width	31.0 cm	12.2 in.
- Depth	54.0 cm	21.3 in.
- Weight	36 kg	80 lb

Electrical requirement

- Power consumption	330 W
- AC input voltage	100-240 VAC
- AC input frequency range	50-60 Hz
- Ampere rating	3.0 A @ 120 Vac 1.5 A @ 220 Vac

Networks supported

- Adapter: Ethernet 10/100BaseT
- Protocols
- AppleTalk
- Net BEUI
  - TCP/IP
  - IPX Printing
- Services
- AppleShare: File sharing
  - PAP: File printing
  - NetBIOS: Printing and file sharing over TCP/IP/NetBEUI/IPX
  - TCP/IP: Printing LPR/LPD
  - Novell: NDS and bindery
- NFS file sharing (option)

Operating Conditions

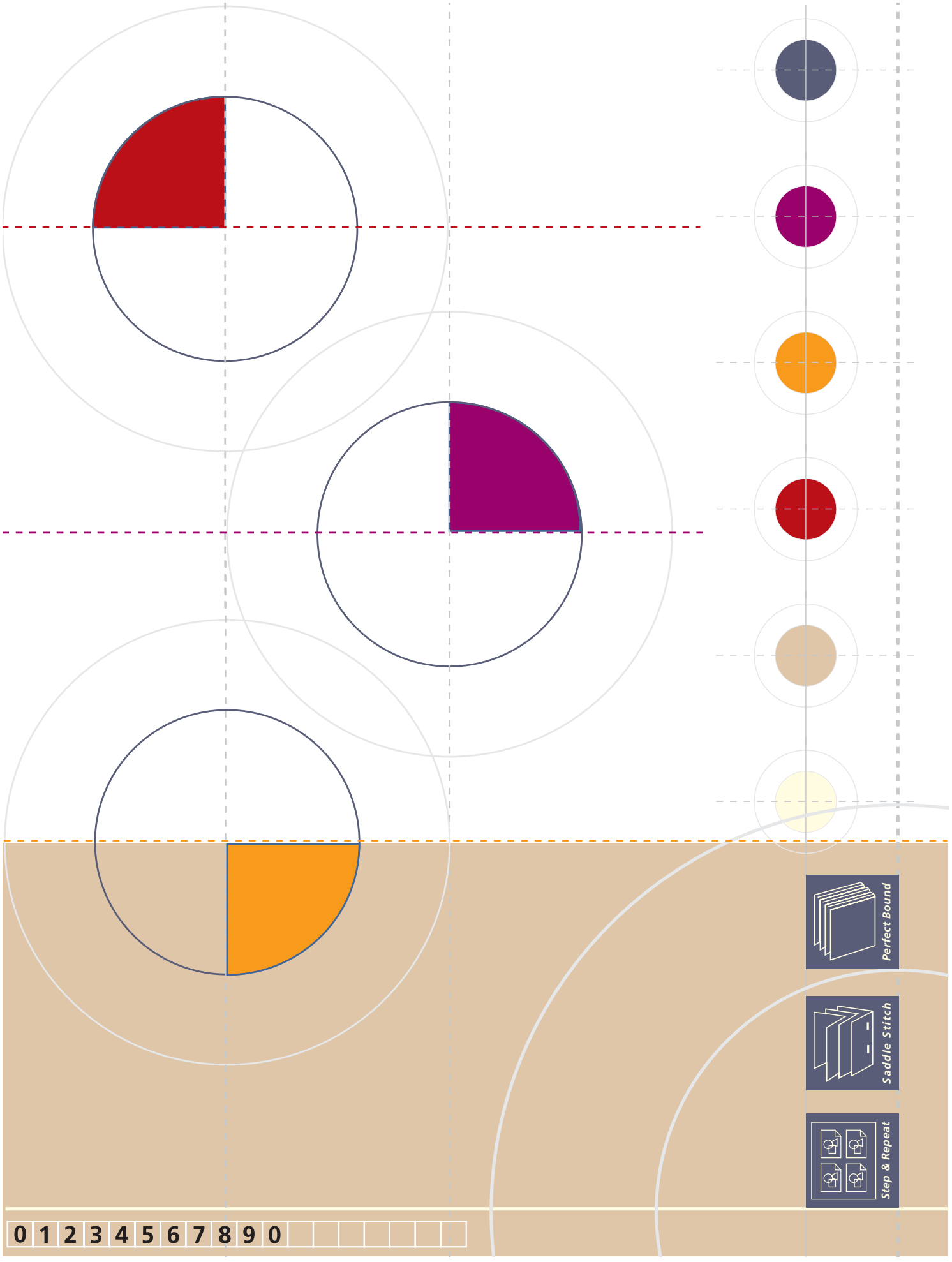
- Temperature	4-40 C / 40-104 F
- Relative humidity	10-75 % (non-condensing)
- Altitude	2000 m / 6600 ft ASL

Features and Benefits

Print Quality	
Features • Printer calibration • CreoScitex trapping • Enhanced text and line art • Superior continuous tone images • Color emulation • GCR • RGB controls • ICC profile workflow	***Benefits*** The robustness of the Spire color server enables printers to produce superior image quality jobs, from simple documents to complex and graphically rich collateral, office applications and VI jobs. Easy-to-use color management tools include control over CMYK and RGB images. Users can achieve professional color within a short learning curve.
Productivity	
Features • RIP performance • Simple operation • Customized workflow • APR/OPI support • Soft proof before and after RIP • Cross printer RTP format • Job editing before and after RIP • Concurrent processing • Post-RIP imposition • Last-minute corrections • Printer ready RTP format - no re-RIP needed	***Benefits*** Spire color servers' new RIP technology provides exceptional performance. Streamlining workflow, Spire color servers can be configured to automatic and unattended operation based on site workflow requirements. Spire color servers can also be configured to a supervised workflow for full control over each stage of production. Spire complements its RIP functionality with a set of workflow tools from pre-RIP preview to post-RIP imposition. Together with enhanced capabilities for last-minute corrections and editing tools, Spire enables Distribute-and-Print workflows, fast job turnaround and Just-In-Time printing.
Variable printing	
Features • Supports all leading industry formats • Soft proofing of VI jobs • Post-RIP imposition of VI jobs • Element caching across jobs • Technologically advanced VI processing • On-the-fly composition • Gallop™ Print-while-you-rip	***Benefits*** Spire servers provide the most effective, efficient and flexible VI solution for digital color printing systems. Spire servers accept VI jobs, such as one-to-one marketing and financial statements, from a wide range of authoring tools and process them at faster than printer rated speed. Spire servers support all leading industry standards.

Imposition made easy

SPIRE


Perfect Bound
Saddle Stitch
Step & Repeat
0 1 2 3 4 5 6 7 8 9 0