DTF
Direct to Film

Welcome to the software solution
for today's print service provider.

Welcome to Ergosoft.

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Prepress production tools for

DTF - Direct to Film

Ergosoft software has been designed to help large format and digital textile printers prepare jobs faster and more efficiently.

It provides tools to reduce manual work, lost time, and wasted media while improving color consistency and productivity.

Whether you have one printer or many, Ergosoft's scalable software can deliver a solution to suit your requirements.

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Prepress production tools for

DTF - Direct to Film

Ergosoft is a modular system which makes the preparation, color management and printing of files easy. Everything that is needed to produce work is supplied.

Our fully featured solution is ideal for any garment or textile producer using digital printing devices.

Ergosoft supports all common artwork formats from Adobe Photoshop (PSD) and Adobe Illustrator (AI), TIFF, BMP, PNG, JPEG, EPS, Postscript and PDF files.

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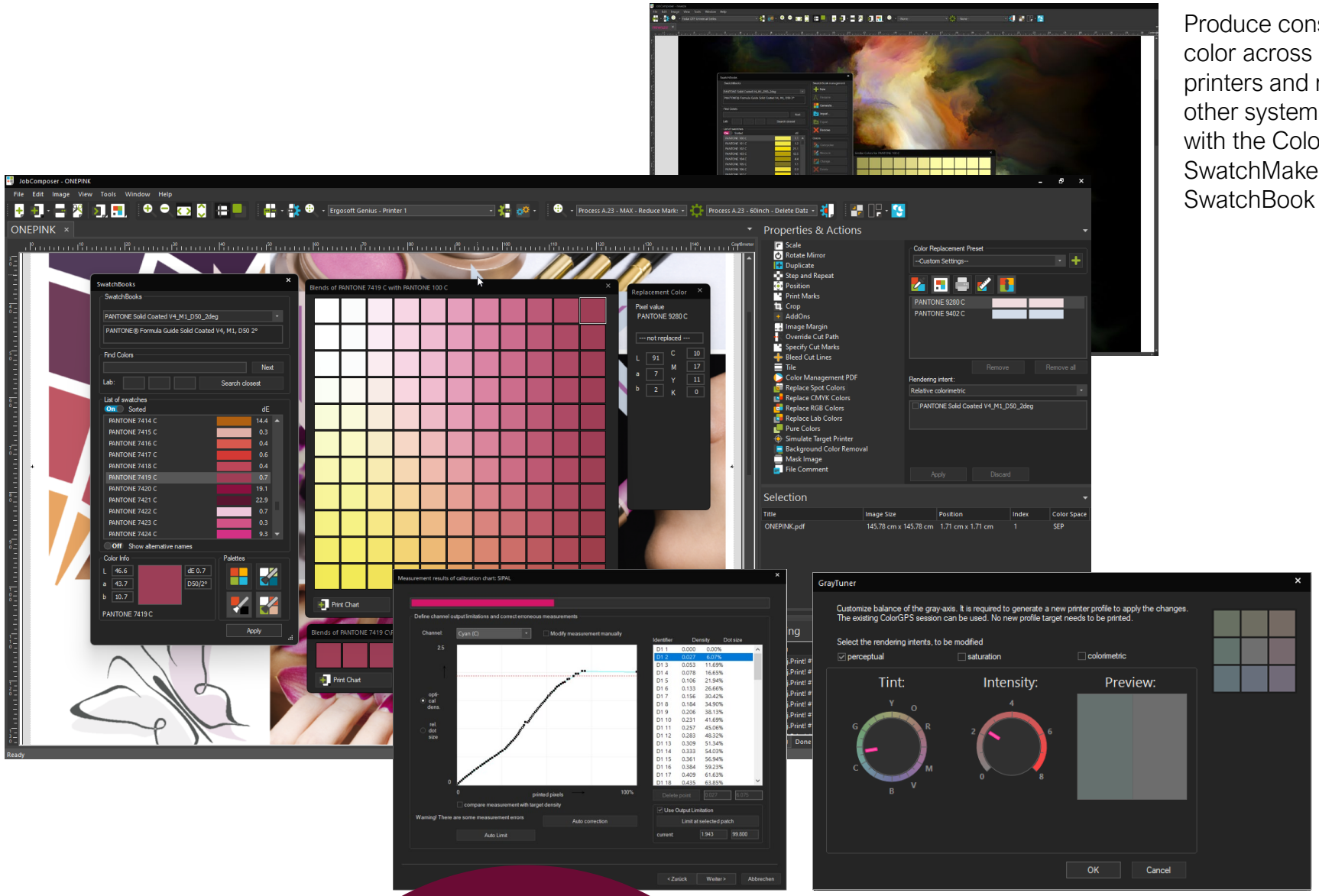
Professional Color Management

Ergosoft's color management tools create the most accurate printer calibration and media profiles possible.

Calculate the best ink density, printer linearization, and ICC profile for all your printers with the easy-to-use wizard, and print with perfect grey balance and reduced ink consumption.

Share profiles and linearize them in the field for 'custom-made' results with profile re-linearization.



Produce consistent color across all your printers and replicate other systems' output with the ColorEqualizer, SwatchMaker and SwatchBook tools.

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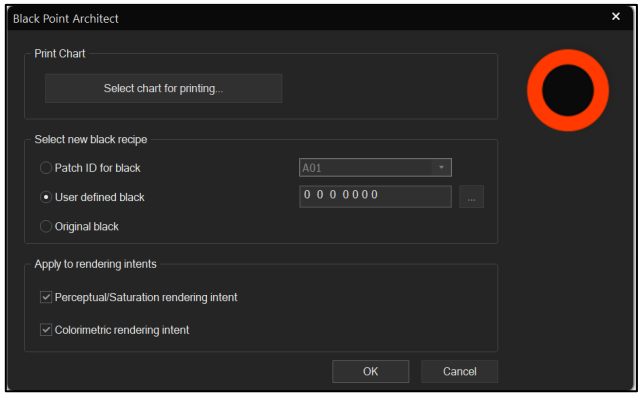
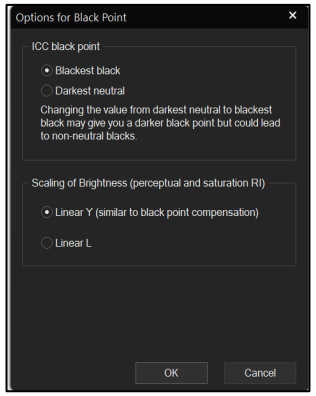
Advanced Profiling Tools

Ergosoft's unrivaled profiling tools are designed to help customers produce the best-printed results from their systems. These included tools are especially useful in hard-to-profile applications such as dye-sublimation and DTF and usually only available in specific, high-end products

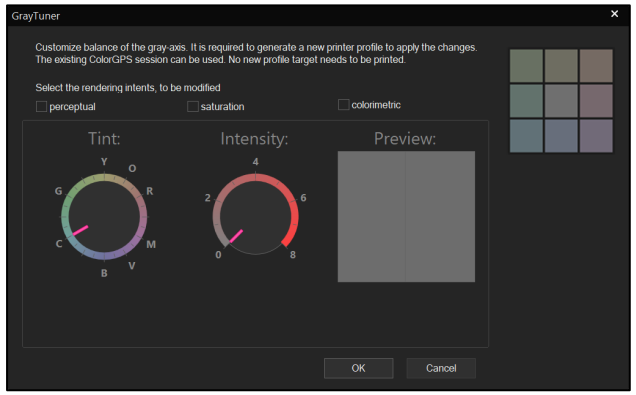
Black Point Architect



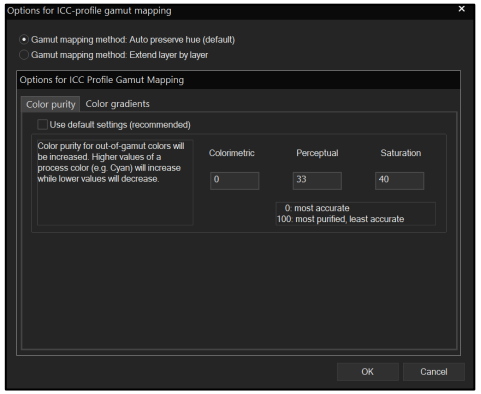
Black Point Settings



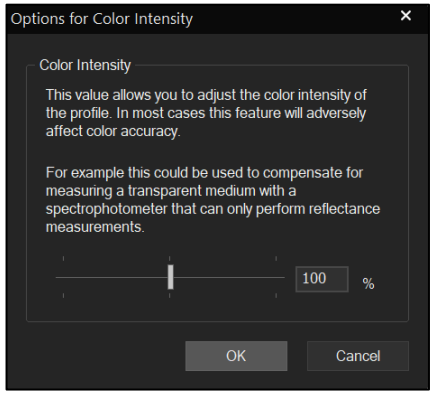
Gray Tuner



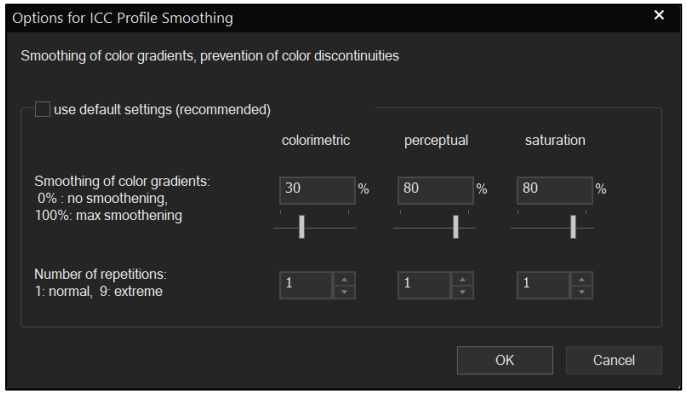
ICC Gamut Mapping



Boost Color Intensity



Profile Smoothing



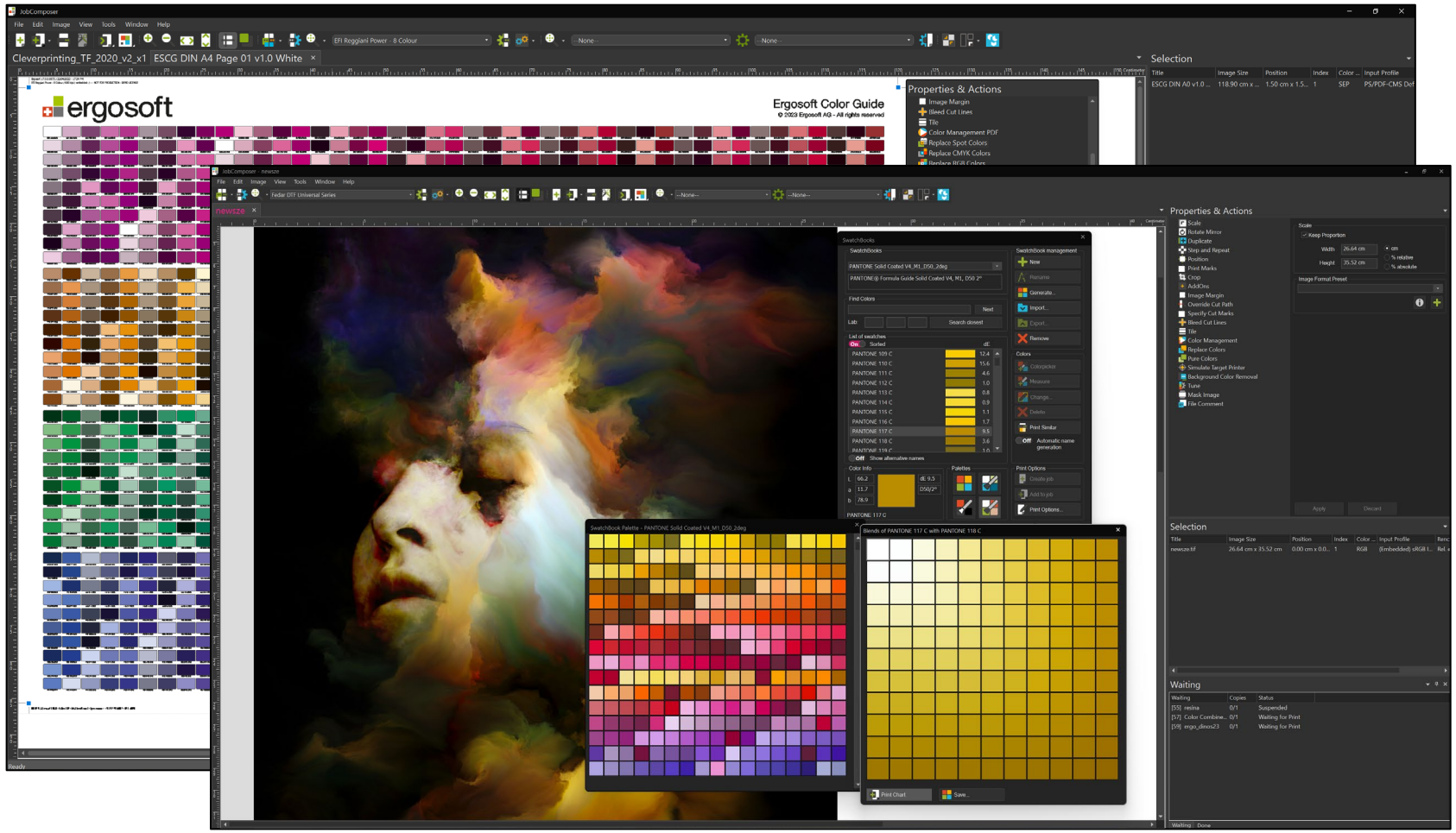
As a true multi-channel ICC profiling system, Ergosoft profiles can contain up to 12 profiling colors.

They can even be exported as soft-proofing profiles for sharing with product designers and remote workers – perfect for modern garment production workflows.

Swatch Matching

Ergosoft's **SwatchBook** and **SwatchMaker** tools create a swatch for the colors being printed along with a range of 'nearest colors' on the actual substrate being used.

Textile swatches give customers something they can see and feel and are just like the final product, increasing customer confidence by removing color mismatch.



SwatchBooks
Use the included Pantone color database, or make your own custom SwatchBooks and share these with your designers or customers as a compatible swatch book for use in Adobe™ applications

SwatchMaker
You can let Ergosoft calculate the best ink mix for your printer, or override it and set your own using all the inks in the printer including gamut extending and fluorescent colours.

Printer Calibration

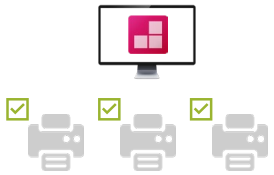
ICC profiles generated in Ergosoft are linked to device linearization files which can be used to calibrate multiple machines to the same density and dot gain.

This ensures device-to-device consistency by printing the same color values across (alike) printers using a single ICC profile.

With support for up to 12 profiling channels in the same measurement session, there really is no ink combination that cannot be used with Ergosoft.

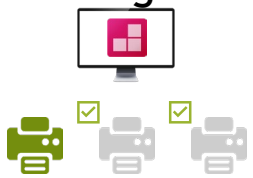
The ColorEqualizer tool will help to align different printing devices including those used with other RIPs. This function is beneficial when combining new and old printers in an installation, all managed within the Ergosoft PrintEnvironment file.

Equalize fleet



Calculate Target Density
Generate a Target Density from multiple Print Environments and apply it to them.

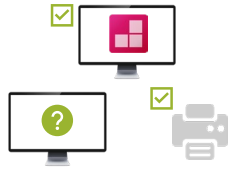
Equalize fleet to existing results



Copy Target Density
Apply one common Target Density to multiple Print Environments.

Copy Printer Profile
Apply one common Printer Profile to multiple Print Environments

Match existing software



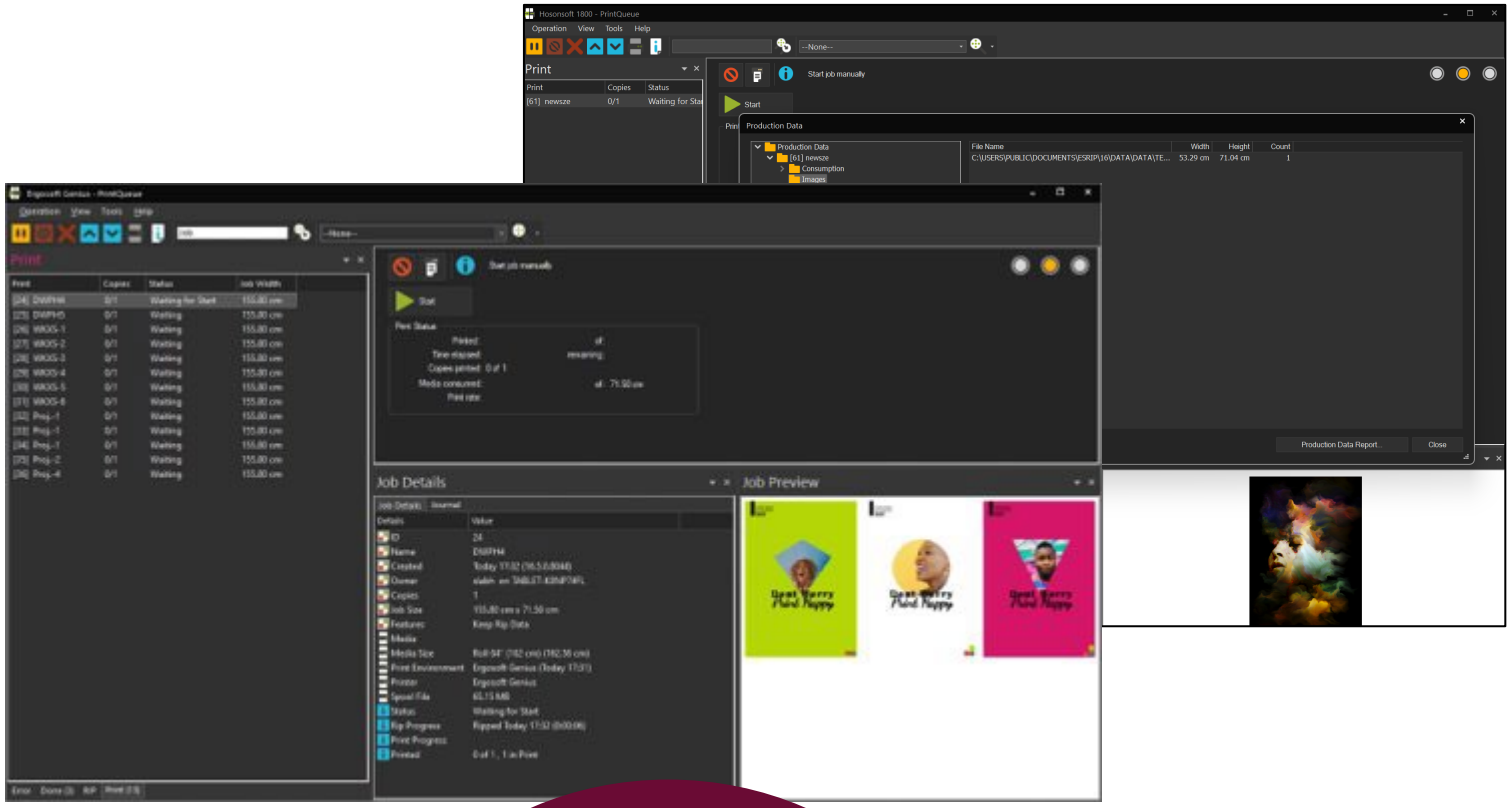
Measure Target Density
Print a Target Density chart with external software and measure it.

PrintQueues

The PrintQueue module takes care of the ripping and spooling functions. Jobs can be ripped, printed or held, prioritized, and reprinted in a single, easy-to-use interface.

Multiple RIP Engines can be allocated to a single PrintQueue for high-speed processing of files.

Printer-specific information such as resolution, pass rate, ink density, linearization (dot gain), and the required ICC profile is taken from the PrintEnvironment file to eliminate user errors and ensure ‘right first-time’ printing.



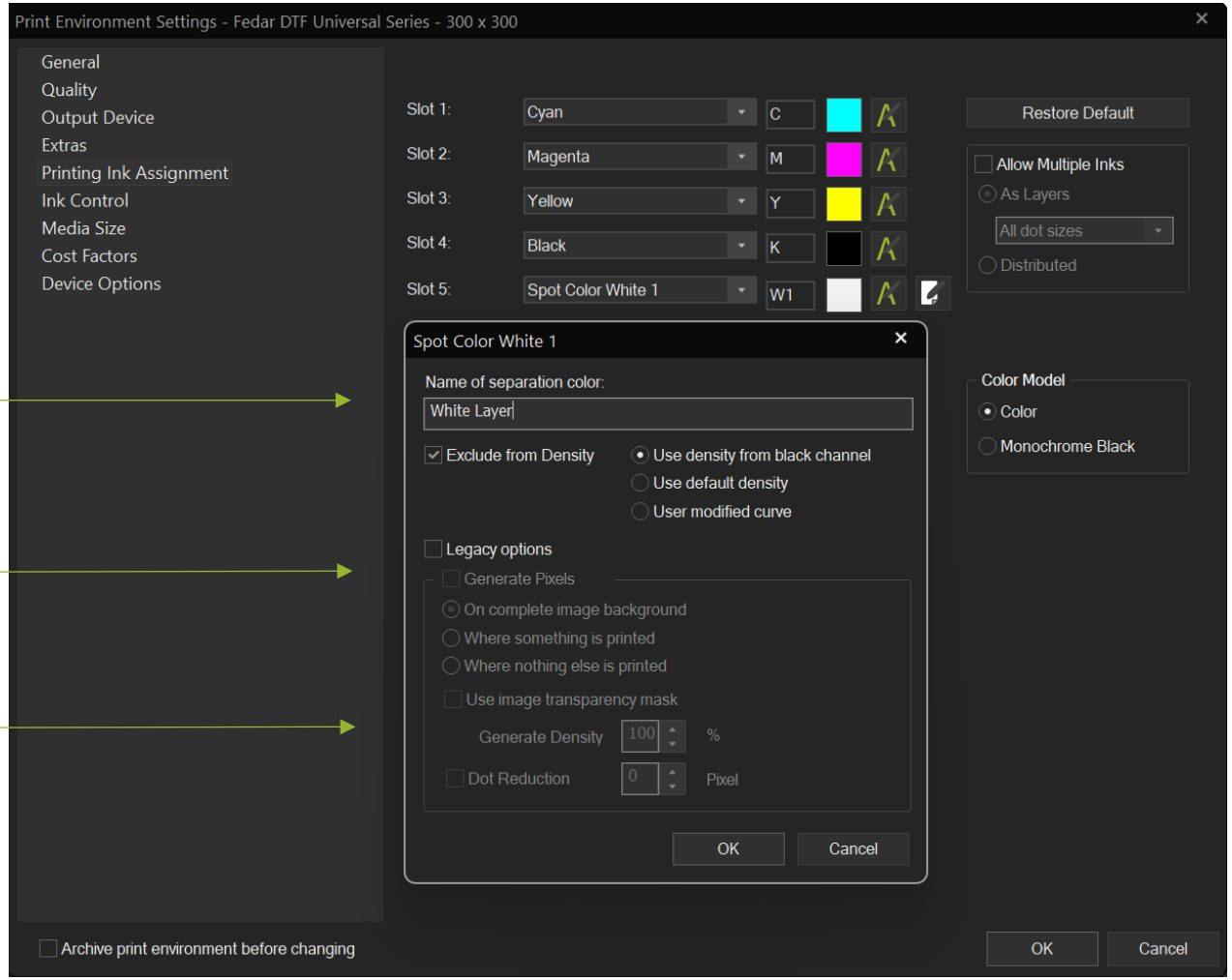
PrintEnvironments – Using White Ink

When managed in the Print Environment, white ink is applied globally depending on the setting.

Named separations in the artwork can be mapped to the white channel in the printer.

Ergosoft RIP can generate white ink pixels even when no white layer exists in the artwork.

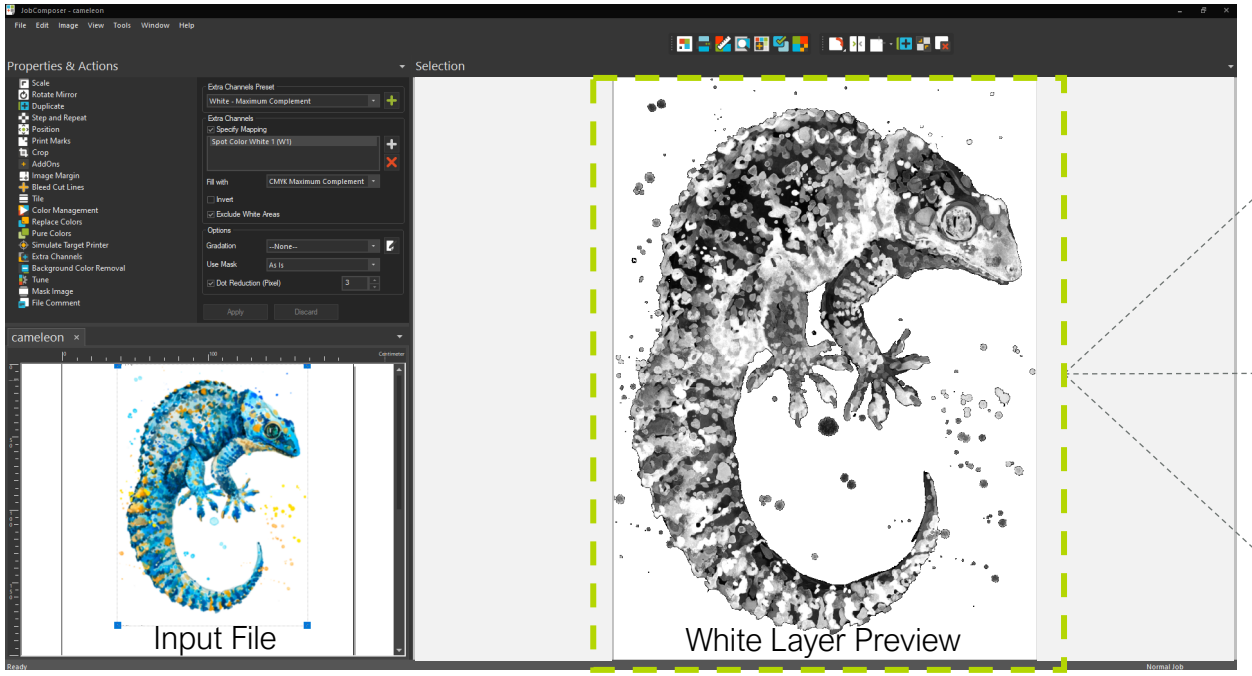
Control white ink density and trap (choke) on a global basis.



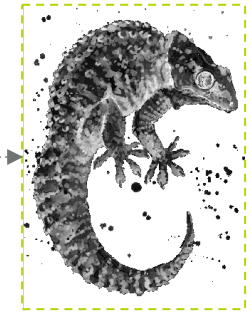
Automatic Generation of White Layer

- 10 different modes for White Layer Generation
- Invert Mode and Exclusion of White Areas
- Gradation Curves, Use Mask, and Dot Reduction Options
- Manage multiple Extra Channels (e.g. White & Varnish) per file
- Create powerful Presets for “Click & Print” automation

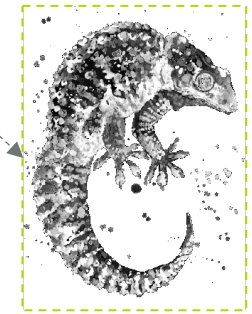
Ergosoft JobComposer



Full Background,
Exclude White Areas



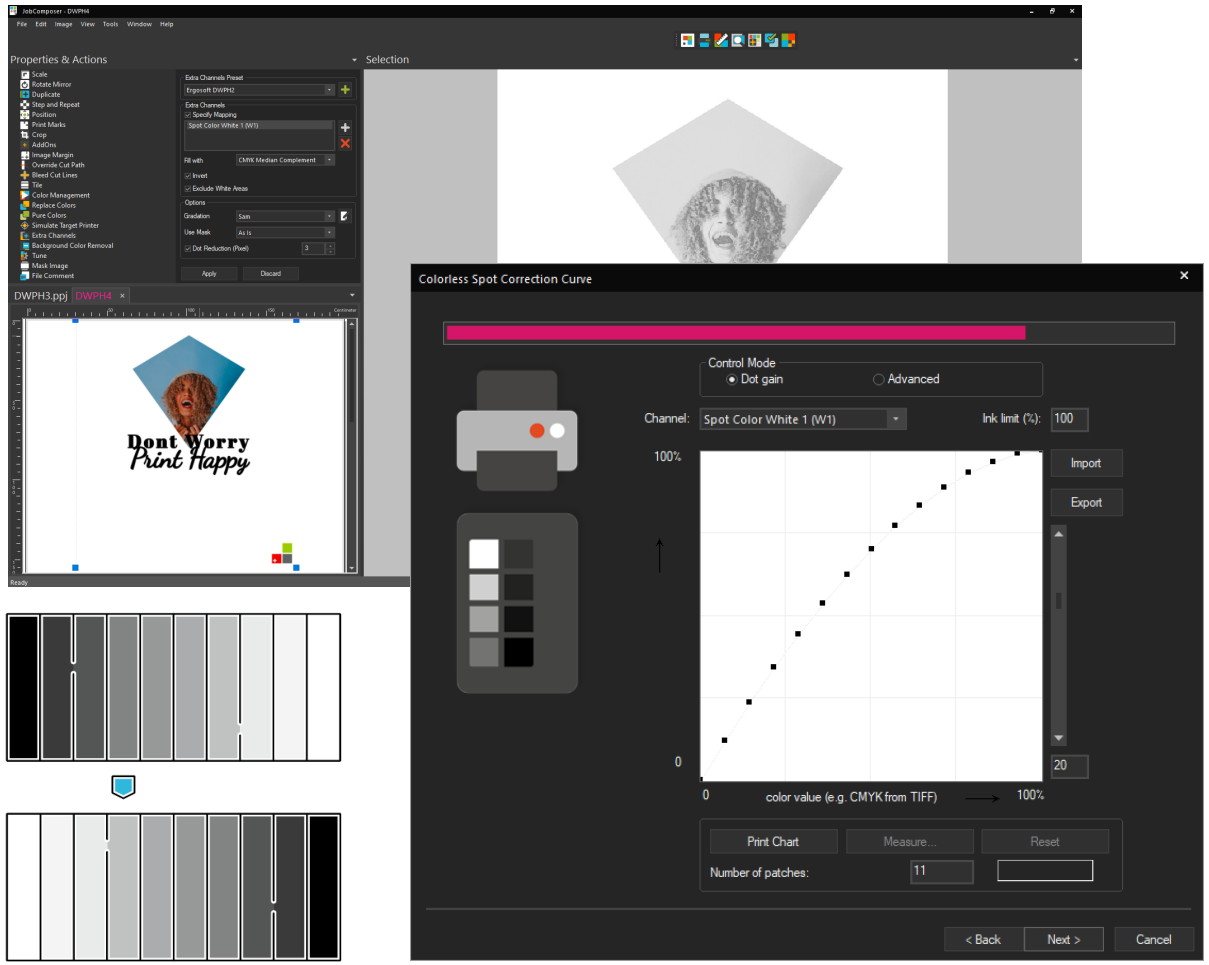
CMYK Maximum
Compliment,
Exclude White Areas



Lightness,
Exclude White Areas

Print & Measure White Gradient

Ergosoft JobComposer



Spot White Correction Curve for Print Environment

- Print & Measure White specific Gradient Calibration Charts
- Control Number of Patches per Chart for best results
- Control maximum Ink limit (%) for optimum coverage
- Control Curve by Dot Gain or manual Advanced mode
- Chart Geometries for all supported Measurement Devices

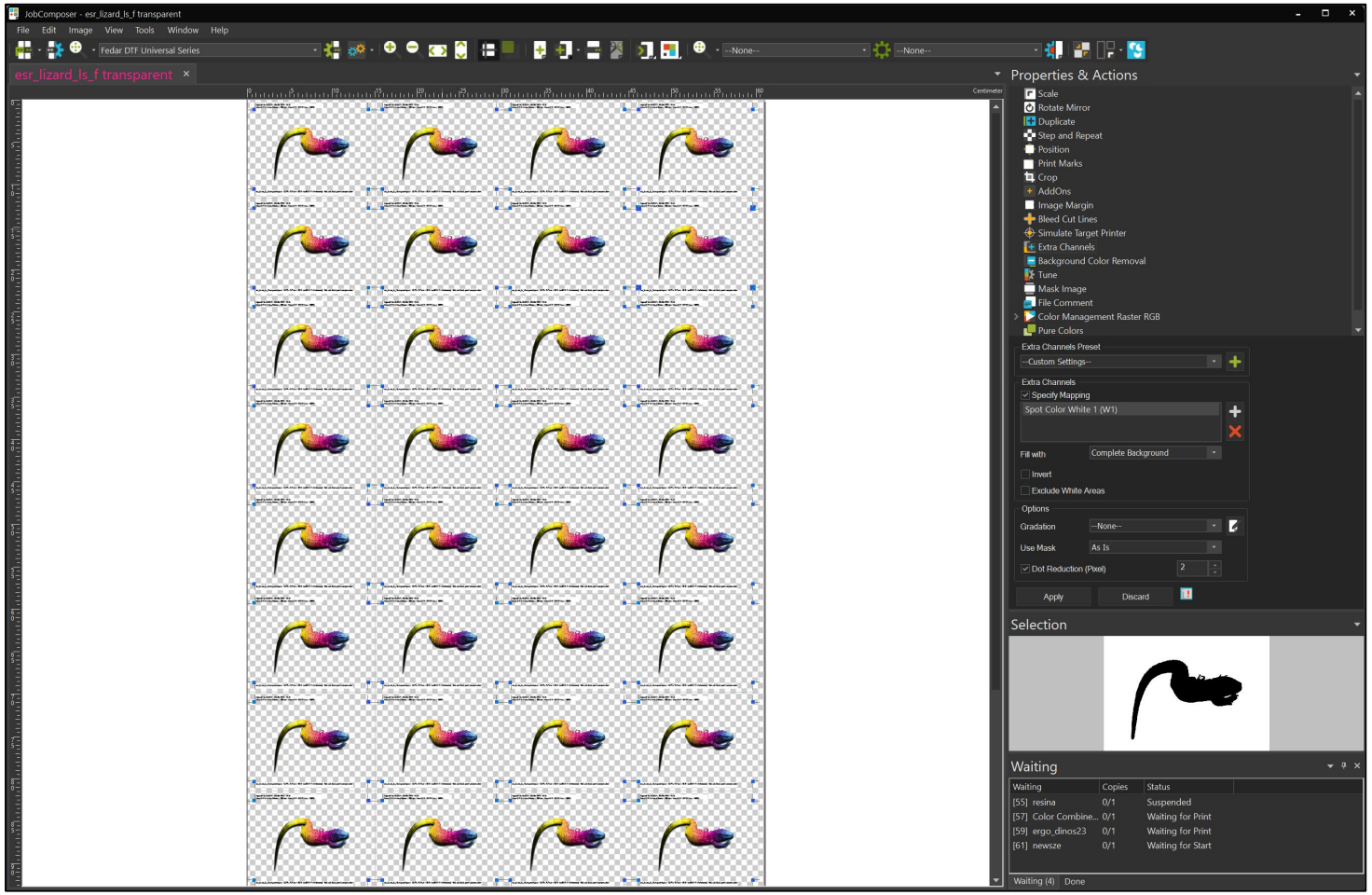
JobComposer – Using White Ink

Designed to deliver all the prepress tools needed for professional textile production, JobComposer is the main application in the Ergosoft solution.

White ink controls can be applied in the ‘Extra Channels’ setting with different masking and gradation options on an image-by-image basis and are very useful for DTF applications where other effects may be needed.

Users use a canvas to prepare jobs, with pre-set layouts and prepress commands depending on the printing process.

JobComposer offers additional tools for image correction, spot color replacement, background color replacement, cut marks, image scaling, nesting, and more. For many garment printing applications, JobComposer is the only desktop tool needed to prepare files for correct printing efficiently.



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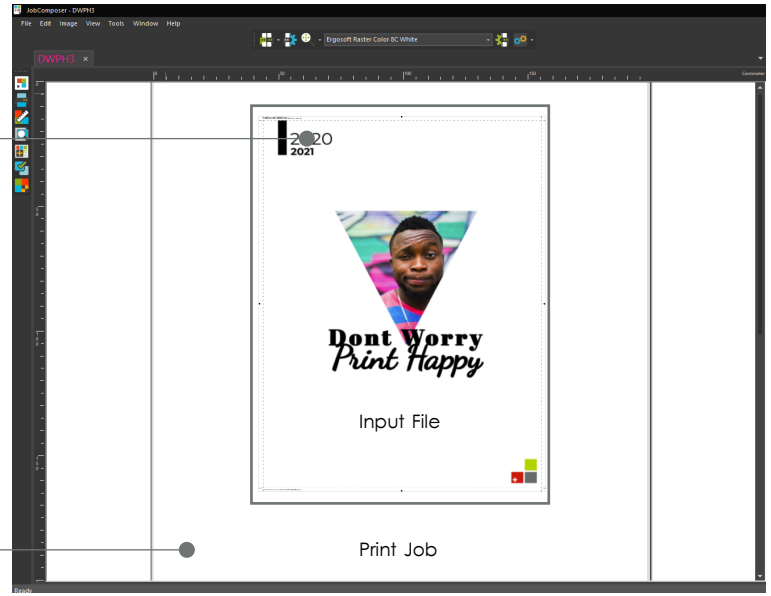
Reducing Manual Work With Presets

Ergosoft JobComposer

ImagePresets

Save all individual settings of an image as “Presets” and combine them into an “ImagePreset”.

Load the next image, apply the “ImagePreset” and Print!



JobPresets

Save all individual settings of a Job as “Presets” and combine them into a “JobPreset”.

Load the next Job, apply the “JobPreset” and Print!

Composite Preset

Ergosoft enables you to combine ImagePresets and JobPresets into Composite Preset to minimize time spent in individual image editing and preparation.

- Ergosoft allows prepress operators to apply a series of processes (called Properties and Actions) to prepare jobs quickly and efficiently.

  In seconds, files can be scaled, cropped, tiled, and nested. Contour-cut paths and bleeds can be created at the click of a mouse.

  Actions can be saved for use again and again. We call these Presets.

  Ergosoft Presets can be connected for more complete workflows, dramatically reducing manual work.

- Composite Presets allow you to connect a series of Actions into a single process to replicate prepress production.

  Scaling, adding seams, eyelets, barcodes, cropping to a pre-defined size, or calculating cut contours are just some of the tasks that can be automated with Ergosoft Composite Presets.

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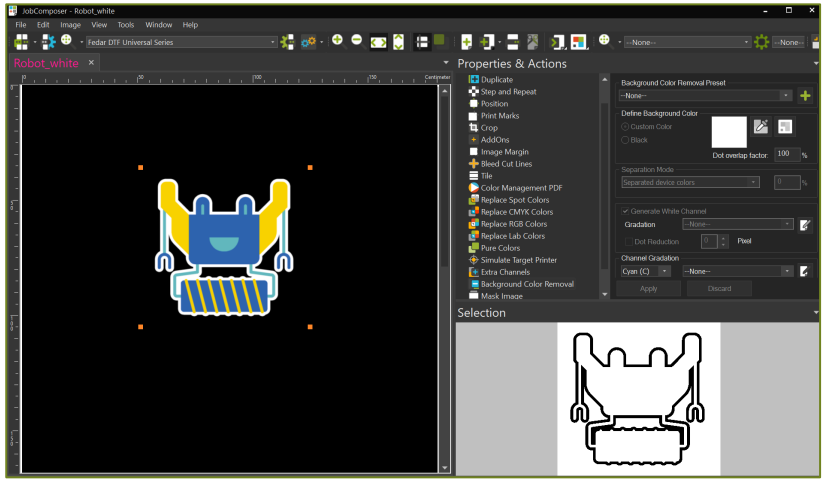
DTF Background Color Preview

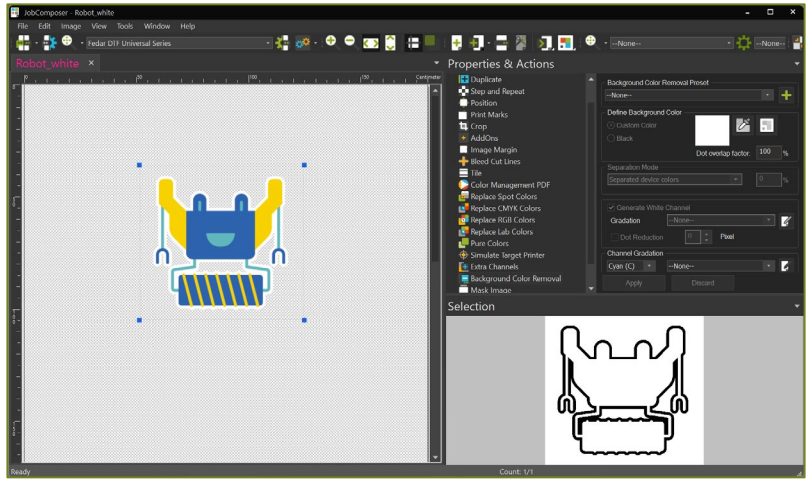
When printing DTF processes, it can be hard to visualize what the job will look like before printing.

Thanks to Ergosoft presets it is easy to switch on background color mode to quickly see how your job will look when printed on colored materials or transparent media.

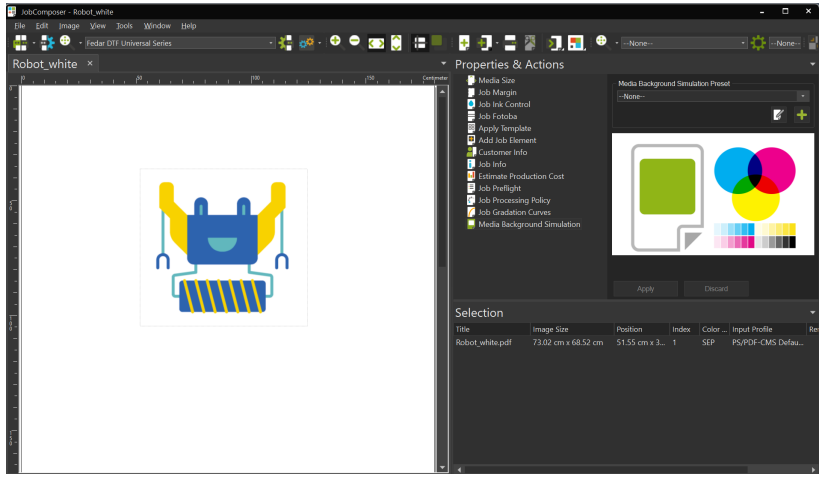
This can be set as default for DTF printing to better visualize the result.



Black garment view



DTF view



White garment view

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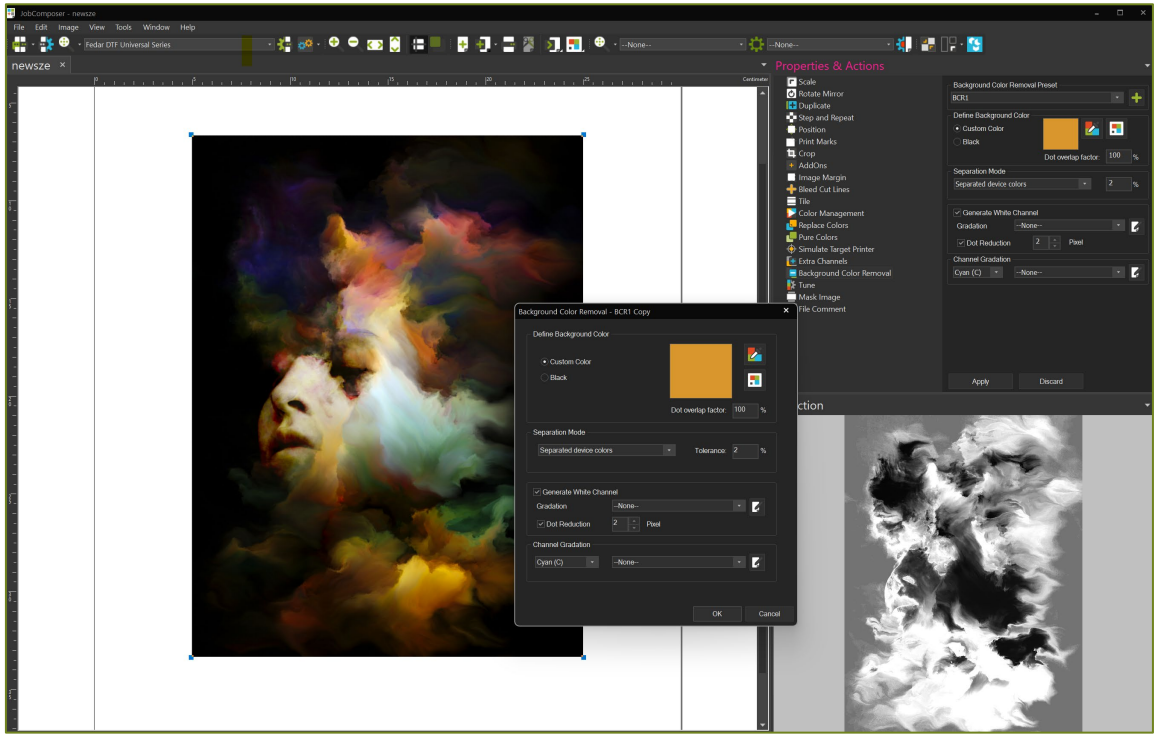
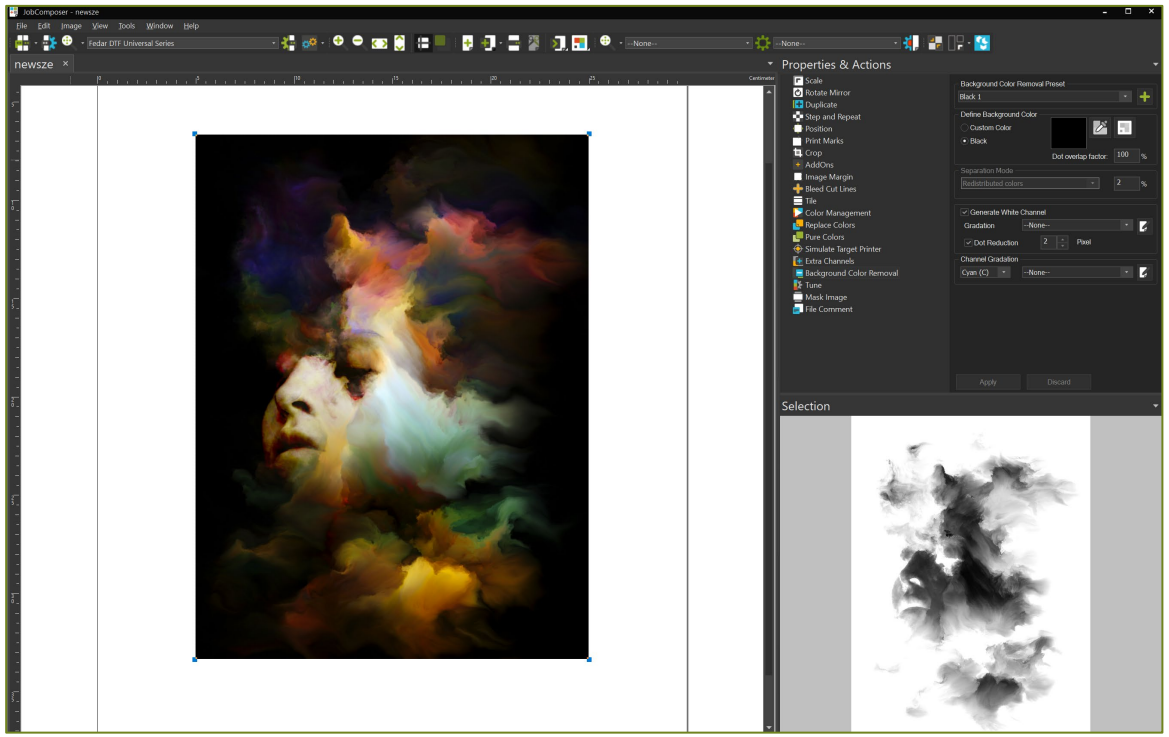
DTF Background Color Removal

Background Color Removal is designed to reduce the overall amount of ink needed to print a design to create a more natural result and increase the quality of the image.



Substrate colors can be measured and entered into the Color Picker. Job Composer will reference the ICC profile and omit CMYK and white inks where possible.
A preview of the white ink is automatically shown in the preview canvas.



With black garments, the white under-base can be removed altogether where black exists in the image.

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