

The Complete Proofing Solution



DuPont™ Cromalin® b-series is the first and only drop-on-demand inkjet proofer that can automatically keep itself calibrated. A robotic calibration module on the inkjet's printhead includes a

specially configured Gretag "Eye-One"™ spectrodensitometer that feeds data to the DuPont™ Cromanet™ proof server. As a proof is printed, the calibration module verifies that the printer is operating at a consistent and known level of performance so that the ink and media profiles used to create the proof will remain accurate. According to DuPont™, this automated calibration eliminates some of the variables that can be caused by manual calibration, such as speed, pressure, and human error. Proofs are printed on DuPont™ standardized proofing media that are automatically fed into the printer and imaged on a rotating drum. To provide consistent ink spots and even gray balance with minimal electronic interlacing, the proofs are built up line by line at an optical resolution of 970 dpi.

The Cromalin® b-series package includes a dedicated Windows®-based proof server, the b-series proof engine, the Cromanet™ RIP, and DuPont™ proofing inks and media. It also supports industry standards such as ICC PostScript 3 (with an Adobe® PostScript 3 interpreter PDFX3).

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FLY-EU0201UK (10/05)



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DuPont™
Cromalin® b-series

THE COMPLETE PROOFING
SOLUTION



DuPont Color Communication
“The ideal colour workflow”



The miracles of science™



The Complete Proofing Solution

DuPont™ Cromalin® b-series



Carefully Formulated Ink

Cromalin® b-series proofing systems use eight dye-based inks to give the widest colour gamut and the best grey balance ensuring accurate reproduction of CMYK as well as Pantone® colours. The inks

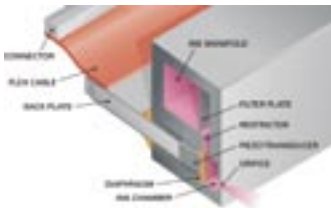
use an alcohol solvent to improve flow through the nozzles and to help penetrate the polymer coating of the paper.

Benefit: Ink and paper matched for optimum colour fidelity.

Ultimate Head Configuration

Cromalin® b-series products have total control over the firing sequence of their inkjet heads, to deliver colour accuracy. With a precisely controlled spot size, the heads produce the optimum match to printed images at a resolution of 970 dpi. At this resolution and speed of firing, the spot shape is not distorted by the meniscus of the ink, leading to absolutely consistent spot size.

Benefit: Optimum combination of speed and print relevance.



Perfect Paper

DuPont™ polymer swellable papers ensure maximum stability of image by encapsulating liquid dyes within their top coating. The ink spots pass through the layer, and when dry, are protected from

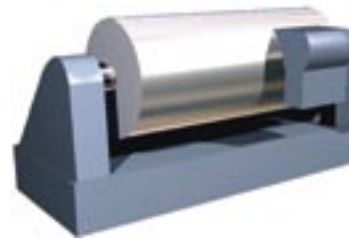
the harmful and fading effects of UV light and oxidation.

Benefit: Long-life colour accuracy, suitable for repeat jobs.

External Drum Accuracy

External drum imaging delivers the same accuracy as the plate setter and press that will be used to produce the final job. This provides better registration than the x-y plotting technology used in standard desktop printers adapted for proofing.

Benefit: Machine-to-machine, proof-to-proof accuracy and repeatability.



No Banding

Writing images in sections, as all inkjet technologies do, means that each section must exactly adjoin the previous one to avoid 'banding'. Two features of the Cromalin® b-

series proofers achieve this goal. Solid bed-mounting for all moving parts eliminates potential vibration problems encountered by 'desktop' inkjet technologies. Accurate stepping of the heads is controlled to 1/1000th of a rotation, ensuring perfect alignment of image 'sections'.



Automatic Calibration

Auto Calibration with an on-board spectrophotometer measures a colour chart as it is being printed by the Cromalin® b-series print heads. The colour chart contains 328 colour patches,

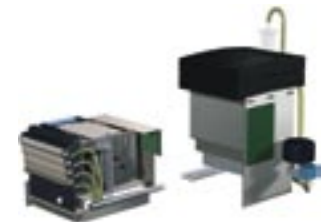
including extras for establishing accurate grey balance. In addition to the accuracy delivered by having an online spectrophotometer, the new feature reduces calibration time from 7 to 3 minutes.

Benefit: Consistent, accurate and time saving, especially on multi-product installations.

Cool Inks Consistent Flow

Cromalin® b-series proofers cool their inks to a constant 17°C. This ensures that the viscosity of the ink remains constant, despite the fact that nozzles increase in temperature during use. Constant viscosity is one of the key drivers towards the consistent spot size needed for accurate colour matching.

Benefit: "What you see is what you print" proofs.



Automatic Loading

Media is taken from the cassette by suction cups and fed onto the drum at exactly the right location. After clamping, the media is smoothed onto the drum using a pinch roller while the drum rotates.

Benefit: Unmanned operation saves time and resources.