

Reduce ink costs by up to 25% while improving print quality

GMG InkOptimizer uses sophisticated color reduction algorithms to replace CMY primary colors with black, maintaining sharpness, reducing ink volumes and improving print quality. The software can be quickly and reliably integrated into automated workflows.

Fully automatic color transformation

The GMG InkOptimizer was developed based on GMG's FileOut technology. Using the color recognition technology deployed in GMG ColorProof, the "4-D color transformation", and special algorithms, GMG InkOptimizer calculates color transformations in a fully automated process. The quantity of CMY inks used is reduced, and the proportion of black ink increased while maintaining an identical color reproduction. Even though images remain identical to both the human eye and when analyzed by a spectrophotometer, the amount of colored ink used is significantly reduced.

Support of international standards

For production according to the tolerances of international standards, use can be made of existing standard profiles (ISOcoated 27L, ISOwebcoated 28L, ISOuncoated 29L and PSR_LWC). As a result of optimized Standardseparation, a color match between the print and the proof supplied is achieved faster and production printing becomes both easier and more stable.

Creating individual profiles

GMG creates profiles for each individual customer, taking specific requirements into account such as the printing technology type, plate making process, dot gain characteristics, ink types, paper stock, and operating conditions, calibrating these with the profiles. There are also industry standard profiles available such as ISOcoated or ISOwebcoated as well as a variety of gravure printing standards.

Different profiles for different applications

Depending on the printing stock used and the particular application, it may be appropriate to vary the degree of ink reduction. For this reason, GMG includes three different reduction levels with each profile.

"Hot folders" ensure an efficient and fully automated workflow

To achieve maximum efficiency, multiple "hot folders" can be set up with individual color transformation settings. This allows GMG InkOptimizer to be easily integrated into different workflows, with specific customer requirements taken into consideration. Colors are always transformed fully automatically with no time wasted and with the job characteristics preserved.

Support for all standard data formats

GMG InkOptimizer supports the full range of industry-standard data formats. One particular benefit lies in InkOptimizer's ability to handle PDF files directly, making format conversions unnecessary. Contone and linework elements can also be handled separately. The system can, for example, ensure that linework elements are not affected by the ink reduction process.

Typical ink savings of up to 25%

Ink volume reductions of up to 25% are typical when using GMG InkOptimizer. Due to the comparatively high cost of the primary color inks, there is an immediate and continuing cost saving. This means that GMG InkOptimizer pays for itself in a very short time.

Improved stability and efficiency when printing

In addition to reduced ink volumes, workflows are optimized and the entire print process is stabilized. Press make-ready is faster and make-ready waste is reduced. In addition, drying times and run performance are also improved, often allowing faster press speeds with certain paper types. Color variations throughout the press run are minimized thanks to more stable ink behavior, significantly improving customer satisfaction and reducing the number of complaints received in connection with color critical work such as display ads or catalogs.

Reliability of color-reduced images

GMG InkOptimizer automatically analyzes incoming data and any potential instances of UCR (under color removal). In such cases, colors are reduced only up to a specified maximum value.

For more information about GMG products, please contact your GMG dealer or visit us at www.gmgcolor.com.

GMG InkOptimizer Technical Data

Software requirements	
Operating system	Microsoft Windows 2000 Server, Windows 2003 Server or Windows XP Pro
Hardware requirements	
Processor	Intel Pentium III compatible or higher
Product features	
Advantages	<ul style="list-style-type: none">Ink reduction while maintaining color accuracyMeasured difference near 0 Delta EFully automatic, on-the-fly transformation using "hot folders"Ink reduction of up to 25%Improved print behaviorImproved drying and run performance of the pressHigher print speed with some paper types
Product features	
Software components	GMG InkOptimizer
Input formats	PDF (to 1.4), PostScript, Tiff, Tiff IT JPEG, CT/LW, EPS (Photoshop pixel data)
Output format	PDF (with PDF-to-PDF), TIFF, TIFF/IT, JPEG, CT/LW; EPS (Photoshop pixel data)
Supported languages	English, German, French, Italian, Spanish, Portuguese, Polish, Chinese, Japanese
Included components	<ul style="list-style-type: none">GMG InkOptimizer on CDCustomer-specific profiles with three reduction levelsUser ManualDongle

GMG GmbH & Co. KG, Moempelgarder Weg 10, 72072 Tuebingen, Germany.
Tel +49 (0) 7071-93874-0. Fax +49 (0) 7071-93874-22. info@gmgcolor.com. www.gmgcolor.com.

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