



# The proofing standard for the flexo and packaging markets

The product portfolio in flexo and packaging printing is characterized – in comparison with standardized offset and illustration gravure printing – by far greater substrate and spot color diversity. Consequently, the demands on a digital proofing system are also higher in the packaging sector. GMG sets new standards in this field with its GMG FlexoProof o5 software, which is specifically geared to the needs of the flexo and packaging markets.

## Target groups

- Prepress businesses and printers in the packaging and label sector.

## Your advantages at a glance

### ▼ Production reliability due to screen control

The DotProof® module in GMG FlexoProof processes not only industry-standard data formats, but also the original 1-bit data of the imagesetter RIP. These data are color-profiled, retaining the original screen information, and output in contract-proof quality. This allows dependable and timely checking, i.e. before platemaking, to detect any interpretation errors, incorrect overprinting or trapping settings, tonal

breaks and moiré effects. In this way, the individual tone reproduction curves and dot gains of a wide variety of presses, or the occasionally coarse screens used in flexo printing, can already be reproduced in the proof.

### ▼ Flexibility due to simple workflow integration

The GMG FlexoProof solution offers a high level of integration in numerous common workflows, such as Nexus™ from EskoArtwork. The separations of the imagesetter RIP are adopted automatically, color-interpreted, and realized on the proof printer. After printing the proof, GMG FlexoProof automatically makes the data available to the workflow again for further processing.

### ▼ ROOM concept saves time and money

A true ROOM concept (Rip Once, Output Many) is realized if the original imagesetter data are used. As a result, internal processes are optimized and synergistic effects created, since once-only data processing in the imagesetter RIP means that the processes are more tightly networked and throughput is increased. This has a direct influence on profitability.

▼ *Substrate reproduction*

Individual substrate structures, such as paper fibers or corrugated board structures, can be created in the system and thus reproduced in the proof. The nature of the structures is irrelevant, be they paper fibers, embossed structures, corrugated board patterns or the like. Unfavorable printing conditions, such as printing on wood pulp paper, can additionally be simulated with the help of variable image noise. The effects of register variations and missing dots can also be reproduced by GMG FlexoProof.

▼ *Extensive spot color functions*

GMG FlexoProof supports all common spot color systems and processes up to 64 separations in one image. The HKS Library, the Pantone® Formula Guide/

Goe™ Library, and the DIC Color Guide are included in the scope of supply. The spot colors are stored in a central database that can be edited and expanded by the user. For proof output, a special algorithm is used to calculate the overprinting properties of the spot colors, which are reproduced in the correct colors as a result. This is particularly important for simulating duplex jobs, or when using color models, such as Hexachrome®. The opacity of the spot colors and the order in which they are printed can likewise be specified at will. White underprinting can be defined as a color of its own.

More information on GMG FlexoProof is available from your graphic arts dealer or at [www.gmgcolor.com](http://www.gmgcolor.com).

## Technical Data GMG FlexoProof

Software requirements	
Operating system	Microsoft Windows 2003 Server, 2008 Server, XP Professional, Vista
Hardware requirements	
Processor	Intel Core 2 Quad, Q6600 or similar, 2.4 Ghz, 2x4 MB Level 2 (L2) cache
Memory	4 GB RAM, 750 GB hard disk
Graphics card/Monitor	Min. 1024 x 768 dpi resolution, 32-bit color depth, DirectX 9.0c support, 256 MB memory (e. g. NVIDIA GeForce 8600 GT)
Miscellaneous	DVD-ROM, min. 2 x USB 2.0, network card
<i>The hardware requirements depend on the operating system used, and on the number and type of output devices.</i>	
Features	
Advantages	Reproduction of the original screen ruling, screen angle and dot shape of the imagesetter RIP; incorporation of the tone reproduction curve and dot gain; special computer algorithms for dot-for-dot reproduction; high throughput due to optimized adaptation of the imagesetter data to the resolution of inkjet printers; all functions of GMG ColorProof o5 and DotProof o5 included.
Software components	GMG FlexoProof, GMG ProfileEditor, GMG SpotColor Editor, Adobe® PDF Print Engine
Supported formats	PS, PDF, PDF/X, TIFF (LZW/Packbits), TIFF-IT (CT/LW composite and separated), TIFF-Bitmap (LZW/Packbits), Scitex CT/LW and Assign (Kodak), Bitmap LEN and ArtPro AIF (EskoArtwork), Delta Documents and Lists (Heidelberger Druckmaschinen), Presstek, Photoshop DCS/EPS (Adobe), JPEG, etc.

Features	
Supported output devices	Epson Stylus Pro 4000, 4400, 4450, 4800, 4880, 7400, 7450, 7600, 7800, 7880, 7900, 9400, 9450, 9600, 9800, 9880, 9900, 10600, 11880  HP Designjet 130, 1050, 1055, 4000, 5000, 5500, Z2100, Z3100, Z3200, Z6100  Canon imagePROGRAF W6400, W8400 and other inkjet and laser printers
Spot colors	Unlimited number of process and spot color separations per proofing job; freely editable spot color databases; HKS, Pantone and DIC Library; support for spot color systems, such as Hexachrome
Supported measuring instruments	Current models from X-Rite incl. DTP70, Spectrolino/SpectroScan, EyeOne, iO, iCColor, iSis
Supported profiles	Proof Standards and calibration sets, incl. MXC, MX3, MX4, MX5 and ICC profiles, support of ICC specification V2 and V4
Workflow integration	Interfaces to Delta and MetaDimension (Heidelberger Druckmaschinen), Nexus and Barco (EskoArtwork), Brisque and Prinergy (Kodak), ApogeeX (Agfa), CelebraNT (FujiFilm), TWiST (DALiM Software), Harlequin (Global Graphics)
Supported languages	English, German, French, Italian, Polish, Portuguese, Spanish, Chinese simplified, Japanese, Korean
Scope of supply	GMG FlexoProof on DVD; dongle; manuals; various control strips, spot color libraries, printer calibrations and (halftone) proofing profiles



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