



Paper fibres or corrugated board structures, and misregistration, can be reproduced in the proof.

# High-end proofing

GMG specialise in high-end colour management for the entire graphic arts industry, from ad agencies, prepress houses and offset printers to newspapers, flexo converters and international gravure printing plants. In fact, the GMG ColorProof system has become the standard for gravure printing in Europe.

Flexographic printing and applications vary significantly from standard offset print work, particularly in terms of the printing substrate variety and the number of spot colours. Consequently, a much higher standard of digital colour proofing is required.

For several years GMG has been setting unrivalled proofing standards in this field. These have reached new heights with the introduction of GMG FlexoProof, a product designed for the unique needs of flexographic and packaging proofing.

Within GMG FlexoProof, the DotProof module accommodates the specific tone reproduction and dot gain produced under any printing condition. At the same time, the original halftone screened, 1-bit data from the imagesetter or CTP RIP remains unchanged, providing a highly accurate workflow.

Any linearisation curves in the CTP system that are irrelevant for proofing can be inverted to normalise the result. Press dot gain is easily shown in proofs. GMG FlexoProof is easily integrated into automated workflows. For example, the correctly proofed data can automatically be written to a 'hot folder' and sent to the imagesetter or CTP process, without re-ripping the data.

## SPOT COLOURS AND OPACITY CONTROL

GMG FlexoProof also includes the GMG SpotColor application, the ideal solution for managing special colours. All standard spot colour systems such as the Pantone Library, supplied with the product, are supported. GMG FlexoProof manages up to 64 separations in one image, with the spot colours held in a central colour database where the user can add additional colours.

All spot colours can be read automatically in any gradation and incorporated into the database. Using a special algorithm, any spot overprint colours can be calculated and printed correctly which is particularly important for applications such as Duplex



A number of printing conditions can be reproduced.

or colour models like HexaChrome. With the GMG FlexoProof solution, colour opacity and the associated print sequences can be specified as needed. White underprinting can be defined as a specific colour too.

The base colour of the substrate can also be reproduced. Actual printing conditions can also be simulated, such as printing on lower quality paper, with the use of variable image noise.

## EARLY DETECTION OF SCREENING PROBLEMS

In addition to processing nearly all industry-standard prepress data formats, GMG FlexoProof can also work with final 1-bit data, such as that created by the imagesetter or CTP RIPs. The data is colour-profiled with the original screen information retained. This supports the early recognition of tonal break-offs, moiré artefacts and trapping errors before plates are ever exposed.

## MISREGISTRATION

A new feature is the simulation of misregistration already in the proof. This also helps to reduce the cost that would occur if the problem were identified only at a later stage.

## FLEXOGRAPHIC AND PACKAGING WORKFLOWS

The GMG FlexoProof solution can be tightly integrated with a variety of different workflows. In particular, workflows such as Nexus and Esko-Graphics, with native data formats fully supported. The final 1-bit ripped, halftone screened data can be used for final film or plate production with no need for repeated ripping. With this approach the sometimes coarse screens used in flexo printing can be reliably reproduced even at the proofing stage. pci

## FURTHER INFORMATION

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