

Our editorial staff is preparing the following topics:

### More than just a new flexo press

Bobst Bielefeld presented the new 20Seven wide-web CI flexo press, particularly suitable for Extended Colour Gamut (ECG) printing. However, ECG, in this case, means more than just a new state-of-the-art flexo press for printing flexible packaging substrates but reflects the current strategic focus of the Bobst Group with regards to package and label printing, for which the new 20Seven is a core element.

### Quality control between yesterday, today and tomorrow

The iPQ Center of BST eltromat International offers flexo and gravure print shops extensive opportunities for monitoring and assurance of constant product quality. The history modular designed solutions for quality control also reflects the changing quality demands of the package printing industry over time. As far as Industry 4.0 is concerned, such solutions offer the possibility of system networking to increase the level of automated production workflows.

### Where now for lamination?

Why do we laminate and why has it over the years become such an increasingly important production process? The short answer perhaps is that lamination allows for an almost unlimited range of often very dissimilar materials and structures to be economically combined in order that unique performance benefits can be obtained that would be difficult or near enough impossible to obtain using a single material.

### Added value applications for metallized films

Any defects on metallized film can lead to a drastic deterioration of water vapour and oxygen barrier properties. The reduced water and oxygen barrier leads to a reduction in shelf life of food products. The flexible packaging industry requires products with high barrier properties and therefore a long shelf life. To meet these requirements, converters need to be able to produce metallized film with a reduced number of pinholes and other defects. In order to address this issue, Bobst developed the DarkNight process which achieves high barrier, low defect metallized films without the need to use high optical density deposition levels.

### The angulation of AM screens – A free choice between bad and worse

The reproduction of halftone images requires the technology of screening. For this, the whole image is divided into small partial areas which are provided with a certain degree of ink according to the respective tonal values. Although this is anything but new, the issue of angulation of amplitude modulated (AM) screens is still an area of particular uncertainties which need to be overcome as this type of screening may gain new interest in the package printing industry.

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### Residual solvent analysis and odour test

Over recent years, the quality requirements for packaging materials has increased steadily which includes to keep the level of residual solvents as low as possible. In order to determine the level of solvents retained gas chromatography has been used. This article will deal with the analysis of volatile organic compounds remaining after the printing process has been completed.

### The growing importance of digital embellishment

Special section **Digital Printing today**

The current analogue and digital printing processes offer the opportunity to include highly attractive packaging images which are increasingly being requested by trade companies and branded goods manufacturers. As the visual impact is still the dominant factor in the end user's purchasing decisions, added value like haptic feel and digital benefits have become more important.

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