

Our editorial staff is preparing the following focus topics:

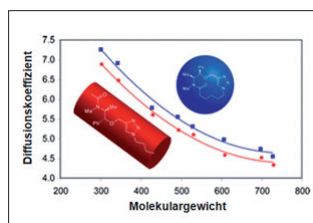
## Corrugated cardboard, carton and paper (prepress, preprint, postprint, die cutting and embossing technologies)

### → Corrugated cardboard is soaring

Corrugated board is the largest segment of the packaging market, which is predicted to average about 3.7% annual growth and sales of approximately \$ 300 billion through 2023. In addition to the traditional protective function for goods and advertising at the „point of sale“, online retail in particular is driving the demand for sophisticated corrugated cardboard packaging. In printing and converting (die-cutting, embossing, varnishing), this not only requires production machines with a higher degree of automation, they also have to be networked with each other and with all those involved in the production workflow for digital communication.

### → New packaging solutions made of paper and cardboard

Printing ink manufacturer Siegwerk and Kotkamills, a Finnish paper and board manufacturer, recently joined forces to develop solutions for fiber-based packaging printers and thus further promote the recyclability of packaging.



## Printing and converting of „new“ packaging substrates

### → Factors influencing migration behaviour

It is not just the different colour systems in digital printing with their different molecule sizes that influence the migration behaviour of packaging made from films, corrugated cardboard, paper and cardboard. The mass transfer from printing inks also depends to a large extent on the packaged goods.



### → Recyclable printing inks

For the production of recyclable flexible packaging based on monomaterials, the printing ink is a crucial component. Printing inks have to be optimized or reformulated so that they meet high requirements such as excellent adhesion properties and high bond values on new PE or PP qualities. On the other hand, inks and varnishes must not interfere with the mechanical recycling process.

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**Issue**  
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# Flexo+Tief Druck

## Prepress: potential for rationalisation in forme production

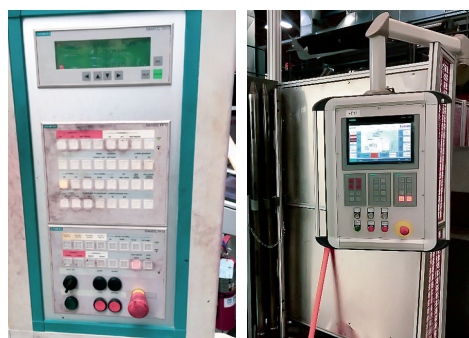
## Tailor-made machine concepts for different applications (décor, security and package printing)

## Sleeve and adapter systems in flexo printing – true high-tech systems

The requirements placed on the adapter sleeve in flexo printing are particularly high. It must have excellent run-out properties, high weight-related strength and rigidity as well as electrostatic discharge ability for safe use with all colour systems. In addition, the adapter sleeve must transfer the print image to the printing material vibration-free at high speeds via the motif-bearing sleeve (avoidance of bouncing).

## Retrofit / used machines

Replacing electrical drive and automation elements in production systems (retrofitting) and used machines is often the most effective and cost-effective way to ensure maximum availability. A necessary prerequisite for this, however, is the preventive and regular maintenance of the mechanical components of these systems and machines.



Source: Lebbing

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