

Issue
1-2021 (February)

Special Section

Extrusion & Converting

Flexo+Tief
Druck

Our editorial staff is preparing the following focus topics:

Trends and market shifts in package printing

Where is the future of the package printing industry? Which markets and which technologies will develop?

Prof. Dr. Volker Jansen gives very interesting answers.



Quelle: Prof. Dr. Volker Jansen

Corrugated cardboard, carton, paper for packaging production

Consistent print quality (colour management, colour kitchen, proofing, print approval)

Web monitoring and inspection systems; web tension control of different substrates; web cleaning

Inks and varnishes for sustainable packaging

→ Drying of barrier coatings: advantages of NIR drying technology

The NIR drying technology is similar to the microwave: The water molecules are activated directly, whereas with conventional dryers the substrate first heats up before the drying energy reaches the actual target, the water or the solvent. This results in many process advantages for the coating and printing of packaging.

Organization and cleanliness in the pressroom

(storage systems, cleaning systems, cleaning agents, ink disposal, solvent recycling, exhaust air purification)

→ Cleaning procedures and cleaning agents

Anilox rollers, gravure cylinders, ink trays, chamber doctor blades, flexo printing plates, ink hoses or containers for inks and varnishes must be cleaned as soon as possible after printing. A wide variety of cleaning methods and cleaning agents are available, which must have a certain „aggressiveness“ for a satisfactory cleaning result, but at the same time must not damage the tools. In addition, they should be environmentally friendly and sustainable. – It's almost like squaring the circle.

Printed electronics

As part of the “Rock Star” project, the Fraunhofer Institute in Freiburg/FRG developed a new type of high-throughput system for the metallization of silicon solar cells. The system is able to implement high-precision coating processes using flexographic printing.



Quelle: Fraunhofer Institut

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15 February 2021

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Flexo+Tief-Druck 1-2021 (February) will appear in the run-up to this important industry events:

19. Inno-Meeting “Umdenken”
Osnabrueck/FRG
3 February 2021

ICE Europe/CCE International
Munich/FRG
9–11 March 2021

DFTA Spring Conference
Dortmund/FRG
23 March 2021

LOPEC Online
23–25 March 2021

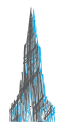
Flexo+Tief Druck Leading German-language technical magazine for package printing and converting industries

Flexo+Tief Druck In the special section **Extrusion & Converting** everything revolves around the packaging film

Flexo+Tief Druck The special section **Digital Printing today** focuses on digital package printing

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Extrusion & Converting

- **Production (extrusion) of monstructured packaging films (Recycling)**
- **Paper substrates for flexible packaging with specific barrier properties**
Filling goods and packaging must be mutually protected against the influence of oils, fats, water and external substances. To date, flexible plastic packaging has often been used for this purpose. However, due to their recyclability, there is increasing demand for paper substrates. But can they meet the high barrier requirements by applying special barrier coatings?
- **Corona technology - Answers to the most important questions (FAQs)**
A flawless adhesion of printing inks and lacquers requires the perfect surface treatment of the film substrate with corona. We will give you understandable answers to the most important questions about the practical application of corona technology.
- **Coating and metallisation**
- **A new generation of lamination technology**
The new Dualam lamination technology combines three essential elements. It consists of the lamination machine developed by Uteco, equipped with the patented Thermilox application system, the new range of solvent-free two-component adhesives from Sun Chemical and the inline quality control system from Synaptik.

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