



PrintPromotion

# NEWSLETTER

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**drupa**

June 16-26, 2020  
Düsseldorf/  
Germany  
[www.drupa.com](http://www.drupa.com)

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## drupa 2020 sets key trends

**From 16 to 26 June 2020**, drupa will offer a 360-degree overview of modern process and value chains for the print industry. As a global industry meeting place, it brings together all the key players. Some 1,800 exhibitors from 50 countries are expected to appear at drupa 2020.

Businesses of all types are participating, from global industry players to ambitious small companies and promising start-ups. Many of the exhibitors will highlight innovative approaches, among them around 400 new exhibitors along the entire value chain. This is seen as a further indicator that the industry is conquering new territory and tapping new growth potential.

The profile of the event is clearly structured and encompasses the following product groups:

1. Prepress / Print
2. Premedia / Multichannel
3. Post press / Converting / Packaging
4. Future Technologies
5. Materials
6. Equipment / Services / Infrastructure

In the run-up to drupa 2020, four future trends are emerging.

Press manufacturers are driving forward the networking of their processes and are making increasing use of the possibilities offered by **Artificial Intelligence (AI)**.

Business models and cooperation between machine builders, customers and other industry players are undergoing rapid change, leading into the **Platform Economy**.

In today's world, customers are online around the clock. The print and media industry must adapt to the changing needs of **Connected Customers**.

Growing environmental awareness, stricter regulation and finite resources require the transition to a **Circular Economy**. The print and paper industry has long been developing appropriate solutions that will meet with a rapidly growing demand in the future.

Innovators in particular will find a wide range of presentation and networking options. For example, at the drupa touchpoints that bring together a wide variety of experts from CEOs to design students or from global brand owners to start-ups:

→ **The drupa cube** – the central conference area – will focus on how companies from the printing, media and packaging industries and their suppliers from the mechanical engineering sector can adapt to the rapid changes resulting from digitization.

→ **dna – drupa next age** is a special show dedicated to future topics in the industry and aimed at encouraging a productive exchange of experiences between global players, start-ups and innovative SMEs. Based on the Start-Up Area in the former drupa innovation park (dip!) and embedded in a new space concept, it gives innovators from the start-up scene an opportunity to introduce new product ideas, services

and strategies for relevant cross-cutting technologies, be it in the form of best practices or business case studies.

→ Packaging printing continues to be a sector with tremendous growth potential. At drupa, its market relevance is reflected in the special **touchpoint packaging** as a stage for presenting the future world of packaging, especially packaging design.

→ The tremendous potential of additive manufacturing as a future-oriented, cross-cutting technology will be another leading topic at drupa 2020. **The touchpoint 3D fab+print** forum covers the industry's entire range and includes presentations on state-of-the-art technologies as well as best practices. One focal topic will be the automation and networking of additive process chains. Further main topics include applications in printing and paper technology, such as the additive manufacturing of high-performance components and spare parts for printing presses.

→ **touchpoint textile** is a new forum dedicated to the potential of digital textile printing as a source of growth and momentum in new fields of business. touchpoint textile brings together companies in different industries, giving them a creative space for inter-industry collaboration, new projects and novel product and manufacturing ideas, which can be implemented in a micro factory.

## New services at drupa 2020

In addition to the special forums, investments have also been made in updating infrastructure and adding new services for customers: A new trade fair app, a matchmaking tool, a new online ordering system, updated since drupa 2016, that helps exhibitors better optimise their experience, and a new wayfinder for better navigation on fairgrounds. Both exhibitors and visitors can now plan a day at the trade fair more easily and efficiently so as to meet their personal goals for the event.

Early bookers can start planning their visit to drupa 2020 and buy their tickets online in the drupa Ticketshop. Further information is provided in the drupa 2020 database which contains the profiles of all exhibitors including the range of products and services.

## Kicked off: the drupa world tour

The starting signal for the drupa world tour 2019/20, organized by Messe Düsseldorf GmbH and PrintPromotion GmbH, with over 35 events in 27 countries on five continents until spring 2020 was given on 10 September 2019 in Mexico City. Then, in September alone, seven more conferences and events were held in Ecuador, Peru, Colombia, Canada, Brazil, Chile and Argentina. By April 2020, events will follow in twelve Asian countries, the USA, Eastern Europe, some EU countries and North Africa.

High-ranking delegations consisting of the CEOs of various printing press manufacturers and leading representatives of PrintPromotion and Messe Düsseldorf present the most important trends in printing and paper technology, inform about innovations in the graphics industry and packaging printing and about innovative applications in the field of industrial and functional printing.

## PrintPromotion Print Industry Summits

In conjunction with the drupa presentations, PrintPromotion is holding PrintPromotion Print Industry Summits (the places and dates of which are given below in the Calendar of Events).

The summits focus on two thematic blocks, i.e. 1. Packaging and 2. Digitalisation / Industry 4.0 / Artificial Intelligence. Representatives of PrintPromotion member companies give presentations on solutions for digitally networked, highly automated process chains in the graphic arts industry and the packaging market ranging from print preparation and the printing process to highly efficient, fully automated finishing. The lectures are supplemented with a panel discussion. Furthermore, rooms are available for individual discussions with the attendees. Print shop owners and their decision-makers can meet directly with the experts from the machine manufacturers to find out how they can use existing technology to increase the profitability and competitiveness of their businesses.

Participation in the summits is free of charge, registration is, however, required. The registration form can be found at → <https://printpromotion.de/conferences/>



The event in Mexico was organized in cooperation with Anidigraph, the national printers' organisation in Mexico. Dr. Markus Heering (l), Managing Director of PrintPromotion as well as the VDMA Printing and Paper Technology Association, and Anidigraph President Román López Meneses were pleased that the conference was a success.



Attentive print media professionals listening to a speaker at the Print Industry Summit in Mexico.



During the Panel Discussion the participants could get professional answers to their specific questions.

## Calendar of events

PrintPromotion Print Industry Summit	Hanoi, Vietnam	5 December 2019	PrintPromotion Print Industry Summit	Casablanca, Morocco	11 February 2020
PrintPromotion Print Industry Summit	Ho Chi Minh City, Vietnam	6 December 2019	PrintPromotion Print Industry Summit	Algier, Algeria	12 February 2020
PrintPromotion Print Industry Summit	Kuala Lumpur, Malaysia	10 December 2019	PrintPromotion Print Industry Summit	Cairo, Egypt	15 February 2020
PrintPromotion Print Industry Summit	Bangkok, Thailand	12 December 2019	PrintPromotion Specialist Teacher Course	azp in Chemnitz	23 September to 21 October 2020

# Pack Print International 2019 in Bangkok showcasing modern packaging solutions

Satisfied organisers, exhibitors and visitors. This is the conclusion of the four-day Pack Print International which was held in Thailand's capital Bangkok from 18 to 21 September 2019. According to Dr. Sven Breitung, VDMA Project Manager of the 'German Pavilion' where ten medium-sized suppliers of printing, plastics and packaging technology took the opportunity to present modern technical solutions under the 'Made in Germany' label, exhibitor feedback was positive. Pack Print International has established itself as a professional trade fair in the ASEAN region with 300 exhibitors this year. The Exhibition Management reported a new record attendance with over 19,000 visitors from 58 countries. The German pavilions are a permanent fixture at established trade fairs. The joint stands have always been a success since they make it easier for small and medium-sized companies to take part in the trade fair thus expanding the range of products and services on show.

The Southeast Asian ASEAN region with its approximately 650 million inhabitants is a market with growth potential for printing and packaging technology as well as plastics and rubber machinery. With rising incomes and growing consumption of high-quality food, drugstore and cosmetics products, the demand for modern packaging solutions is rising, and, with it, the demand for high-quality, efficient machines. Users in the ASEAN region are regarded as technology and brand conscious. In addition, Thailand is becoming the preferred production location for global brand manufacturers. They manufacture high-quality packaging for products sold worldwide, which must therefore also meet global standards and norms.



The German Pavilion was a meeting place for talks and discussions.

## swop 2019 – Enter the era of smart & innovative packaging



From 25 to 28 November 2019, the Shanghai World of Packaging – swop covered end use industries such as food, beverage, confectionery, baked goods, pharmaceuticals, cosmetics and daily care products, non-food consumer goods and industrial goods, providing an excellent trading platform for domestic manufacturers of processing and packaging machinery and materials in the Shanghai New International Export Centre. In the 'German Pavilion', ten German companies, among others, PrintPromotion and KBA-Metronic (Hangzhou), presented their products and services under the 'Made in Germany' brand.

The focus of swop was on artificial intelligence, printing and labelling, e-commerce and logistics packaging, personalized packaging, packaging design, etc., with the aim to provide innovative packaging solutions and showcase intelligent processing and packaging production lines for the entire industry chain. A growing population, further urbanization, a growing middle class as well as increasingly Western consumer habits and the spread of modern trade structures contribute to a further increase in demand for processed and packaged food, beverages, pharmaceutical and cosmetic products as well as other non-food products. Chinese consumers are attaching increasing importance to high-quality and safe products and their attractive packaging.

## Sharing knowledge for better print quality world-wide

Sharing and transferring knowledge about print production from prepress to printing and finally print converting is the main aim of the PrintPromotion specialist teacher courses in Germany and the specialist teacher seminars all over the world which are organized in cooperation with the azp Training Centre for Graphic Arts and Printing Technology based in Chemnitz/Germany. Only a few weeks ago, a training seminar was held in Greece with some 30 participants.

This year's Specialist Teacher Course at the azp in Chemnitz took place from 19 June to 17 July and was attended by 15 specialist teachers coming from Egypt, Brazil, Colombia, Ghana, India, the Ivory Coast, Kenya, Malaysia, Nigeria, Serbia, Sri Lanka, Thailand, Uganda and the Ukraine. The international character of these courses always provides added value because it enables the teachers to see what they are teaching at home in other contexts.

In theoretical and hands-on sessions focusing on prepress, print and print processes as well as cost calculation the participants can update their knowledge and liaise with the teachers and colleagues from other countries. The curriculum is supplemented with excursions to machinery manufacturers and printing houses in Germany.

→ **The next PrintPromotion Specialist Teacher Course at the azp in Germany is scheduled for 23 September to 21 October 2020.**



Special highlights were the excursions to machinery manufacturers and printing houses.



In the sessions, the participants were made acquainted with the latest developments in prepress.

# Company news

## If everyone wins, **it's up to the BASS**

For many years, the Ferdinand Walcher & C.F. Rees company, one of the leading European label printers based in Heidenheim/Germany, and Baumann Maschinenbau Solms have maintained great business relations. That's why Markus Frick, managing director of Baumann and thus responsible for the products of the baumannwohlenberg brand, contacted this customer in order to inform about the recent novelty – the automatic cutting system BASS – as a perfect solution for the growing label specialist. The decision to invest in the new system of baumannwohlenberg was then quickly taken.

"We are very satisfied with the BASS system," said technical manager Peter Frank after the successful installation. "The cutting process is fully automatic with no staff required and provides a perfect cutting quality – around the clock. This means that our high demands on the quality of the finished products are

fully met. After all, we produce the face of our customers' products - so we can't and don't want to accept any compromises."

Technical director Axel Schucht agrees stressing that the main advantages are the consistency of the handling process, improvements for the planning of jobs and thus the satisfaction of customers. And Schucht sees another advantage in the configurability of the system which offers high flexibility as to customer requests or types of orders – with shortest set-up times and very simple operation.

The new acquisition is also beneficial for the staff. The advantages lie in the time savings and the lower physical strain for the operators, plus the modern, future oriented workplace design.

.....  
Baumann Maschinenbau Solms GmbH & Co. KG



Axel Schucht (left) and Peter Frank are very satisfied with the efficiency of the new BASS automatic cutting system from baumannwohlenberg.

## Now possible: **high speed sheeting** for plastic film

Manufacturers and converters, wishing to cut delicate materials, typically struggle with achieving mark-free results on security documents, solar panels and materials used in the automotive and aviation industries. To prevent ultra-thin, delicate and electrostatically charged single web films or light papers from crinkling and soiling, the mechanical handling is the key solution.

The RQS-V Questec Sheeter is BW Papersystems' approach to eliminate this issue: The Air Stream system moves sheets without tapes, rollers or belts. The sheets are effectively pulled by air – instead of pushed by belts – through the process, without any mechanical contact. This allows mark free results at a high speed for sensible products, such as plastic film, lightweight and specialty papers.

The conventional sheet transportation technique of a line transport system leaves a long gap of access or guidance of the film or paper sheet. This causes disturbances

and therefore production stoppages. The "Air Stream" sheet transportation technique offers a nearly gapless transfer and takeover of the material to be cut until the sheet is placed into the final stacked position. This technology provides precision cut and stacked sheets without the need for wasteful guillotine trimming.

When transporting and cutting single-layer papers, starting from 30g/m<sup>2</sup> and plastic film starting from 80µm, at a cut-off length of 400mm to 1050mm, and at a leading production speed up to 400m/min (1,300ft/min) or even 600m/min (1,960ft/min.), the Questec Sheeters offer highly competitive technology. For special applications, their sheet delivery system allows far longer sheet lengths than normal to be delivered. It's available in 850mm and 1350mm widths.

A shaftless self-loading unwind with tension maintained by brakes or motors is standard. Decurling and edge guiding functions are provided between the unwind and the sheeter entry. Options such as cut to print register, corona treatment, perforating or coating are available as options.

As the web enters the sheeter, the optional side trimming and center slitting is available. Trims can be rewound or removed via a blower. A segmented nip roll system pulls the web into the sheeter and a system keeps the web under control after the nip point up to the cross cut point.

The semi synchronized cross cut knife produces the highest quality of accuracy, cut quality and squareness without causing air turbulence. Stacking quality is maintained for front and side jogging. Finished sheets have commercial level cut quality, accuracy and stack quality eliminating the need for guillotine trimming.

An advanced drives and controls package ensures that job specific adjustments are easily set and stored for future use. Remote diagnostics are standard allowing BW Papersystems' global support team to provide the fastest possible intervention.



In the TWS-V Questec Sheeter from BW Papersystems, the sheets are pulled by air so that electrostatic charge and surface marking are eliminated.

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BW Papersystems Hamburg GmbH

# Packaging offensive for the Asian market

Packagings account for around 25 percent of all printed products. At the same time, the packaging market is the strongest growing market segment with around 3 percent on average. The most important region is Asia/Pacific with an annual growth rate of 4.6 percent. It's the same picture the world over: brand owners have extremely demanding quality standards for folding cartons. The trends are ever declining runs, faster innovation cycles, shorter delivery times, increasing cost pressures, falling margins, more embellishments, zero defect production, and customized packagings. Heidelberg showcased its comprehensive range of solutions for packaging printers at three events in Asia.

The kickoff came at the beginning of September in the Heidelberg plant in Shanghai with the Packaging Day, which welcomed nearly 100 visitors from the Asian region. The Heidelberg experts showcased the integrated Smart Print Shop for packaging consisting of the Prinect workflow, the Speedmaster CD 102-8+L Multicolor with navigated printing, and finishing with the Promatrix 106 CS die-cutting machine, the new Diana Go folder gluer, and quality assurance with the Diana Eye inspection system. The focus here was on the variety of finishing options such as inline embossing and drip-off special-effect coating. The interaction between digital and offset was demonstrated with a Versafire EV and the Speedmaster CX 75-5+L. Saphira consumables optimally tailored to the machines were used, such as the food-safe inks and coatings which are so important for packagings.

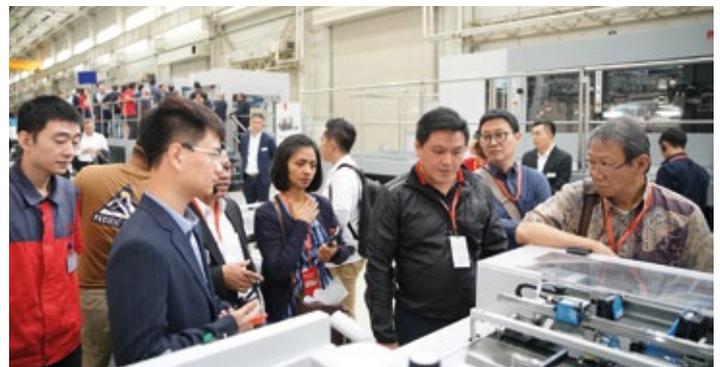
The event in Shanghai was followed by the Open House at Masterwork (MK) in the Chinese city of Tianjin, where the current MK portfolio for finishing was presented. A number of visitors to the Packaging Day as well as other guests from around the world including France, Mexico and Russia attended the MK Open House. The partnership between MK and Heidelberg for finishing machines in the packaging market goes back to 2014. MK develops and produces the machines, while Heidelberg handles sales and service. The portfolio is constantly being expanded and adapted to customer requirements. For example, the Open House showcased the Promatrix 106 FC, which die-cuts and can apply hot foil, for the print embellishment sector. The Powermatrix 106 CSB, which die-cuts and embosses, is now also compatible with EU pallets. The Promatrix 145 CSB for bigger formats and high throughput is new. The Digimatrix 60 FC, the economical solution for short runs in the hot-foil embossing and die-cutting sector, was also shown for the first time.

The third outstanding event in Southeast Asia was the Pack Print International Bangkok. Since September of this year, Heidelberg has been shipping the Speedmaster XL 75 and CX 75 with a modern and ergonomic design for greater user-friendliness. The visitors to Pack Print International Bangkok got to witness the new design of the Speedmaster CX 75 for the first time. Together with the Easymatrix 106 CS die-cutter and the Diana Easy 115 folder gluer, it produced high quality folding cartons. The visitors also showed great interest in information about Lifecycle Solutions and Heidelberg's digital printing range.

Heidelberger Druckmaschinen AG



The Packaging Day in the Heidelberg plant in Shanghai demonstrated the Smart Print Shop.



The Open House at Masterwork showcased the comprehensive range of finishing machines for the packaging market.



The visitors to the Pack Print International Bangkok trade fair got to see the high print quality of the Speedmaster CX 75.

# Russian printing company strengthens market position

The printing company 2x2 in the city of Blagoveshchensk in the Far East of Russia has installed a complete solution from Heidelberg. The package includes Russia's first Speedmaster CX 75 five-color press with coating unit, Prinect Production Manager workflow software, and a Polar N 92 cutting machine as well as a Stahlfolder Ti 52 folding machine for postpress. The printing company 2x2 has purchased the Prinect Production Manager workflow software as a subscription model. It is a cloud-based subscription package, for which Heidelberg charges a monthly usage-dependent fee. The Prinect Production Manager provides the resources for setting up an integrated workflow covering all the steps involved in the production process, and is an ideal solution for establishing a Smart Print Shop.

The newly installed machines have enabled 2x2 to increase its productivity thanks to the significant reduction of makeready times. On the Speedmaster CX 75, the ink feeding is controlled via Prinect Easy Control which not only saves time, but also reduces waste. The Speedmaster CX 75 is a multi-talent suitable for many different printed products. It processes very light papers as well as heavy cardboard with a thickness of up to 0.6 millimeters – as an option, even 0.8 mm are possible.

Heidelberger Druckmaschinen AG

## First printshop in Japan opts for “Heidelberg Subscription”



Kenichiro Kimura (left), President of Hokuriku Sunrise, and Joerg Bauer, Member of the Management Board of Heidelberg Japan, seal the first “Heidelberg Subscription” contract in Japan.

Kabushiki Kaisha Hokuriku Sunrise (K.K.Hokuriku Sunrise) is the first Japanese Heidelberg customer to opt for the “Heidelberg Subscription” digital business model. The company was founded in 1975 and employs 34 people. Its core business includes marketing services and a broad portfolio in commercial printing. The subscription agreement with Heidelberg includes a Speedmaster CD 102-4, which replaces two competitor presses in A1 format, all consumables, service, including service parts, workflow, training and consulting services. Customers can order consumables and service parts via the Heidelberg eShop. As part of the “Vendor Management Inventory”, Heidelberg also manages the inventory of consumables and service parts on behalf of the customer.

With its subscription model, Heidelberg is focusing on a growing trend for pay-as-you-go. The customer pays exclusively for a productive industrial service, i. e., for the number of printed sheets. In the new digital business model, the highest level of the billable sheet price includes all the equipment, consumables such as printing plates, inks, coatings, detergents, blankets and a comprehensive range of services geared to availability. At the customer’s request, Heidelberg can also take over the entire logistics for consumables (“Vendor Managed Inventory”) as part of the subscription offering.

Heidelberger Druckmaschinen AG

## In the focus: sheet-fed rotogravure

H.C. Moog has regularly contributed to the PrintPromotion Conferences all over the world. So C.E.O. Achim Kurreck was, of course, also a speaker at the PrintMediaManagement Conferences organized alongside the drupa presentations that started in South America in September this year. Kurreck explained the benefits and advantages of the single-colour and multi-colour sheet-fed gravure printing presses offered by Moog. All machines supplied by this manufacturer are tailor-made configurations of sheet-fed gravure presses that help the users to produce attractive printing products ranging from packaging to stamps, magazine covers and labels, etc. with or without varnishing, micro and blind embossing. The Moog experts offer comprehensive advice, not least to newcomers in this field. Furthermore, the services of Moog before and during commissioning include operator training.

The Moog production range comprises single- and multi-colour sheet-fed gravure presses with up to 8 units as well as single-sheet-fed gravure presses for printing on paper of sizes 750x1060 / 1050x1450 / 750x570 (digital) as well as on cardboard, synthetics and all kinds of paper up to 1mm thickness. Especially highlighted during the conferences was the multi-talent 1-TBR Compact which shows its outstanding strength in gravure printing on packaging for cosmetics, confectionery, perfumes, pharmaceutical products, tobacco, the food industry and labels as well as mock-up models and prototypes.

Sheet-fed rotogravure is also well known for security printing with features protecting against forgery. The sheet-fed rotogravure technology is a guarantee for equal and highest printing quality standards in the packaging and label industry worldwide. The nearly unlimited range of outstanding printing effects that can be achieved with this technology magnificently helps to transform the creative visions of designers into reality.

H.C. Moog GmbH



Modern Art in the entrance of the MOOG Technology Center in Miehlen/Germany.

## Host to important meeting

The implementation of Print 4.0 strategies, the future of print products and the election of the Chairman of the Management Board were the topics of the VDMA Printing and Paper Technology Association at its meeting in Dresden hosted by KAMA – represented by the two managing directors Marcus Tralau and Steffen Pieper. Host KAMA, as a machine manufacturer, is also promoting networking for Print 4.0 for its processing solutions.

The committee elected Stephan Plenz, Member of the Management Board responsible for Digital Technology at the company Heidelberger Druckmaschinen AG, as the new Chairman of the Management Board of the Association. He replaces Kai Büntemeyer, who held this office since 2004 and has played a key role in shaping the Association over the past 15 years. Association Director Dr. Markus Heering expressed his sincere thanks for his great commitment to this honorary position. The Management Board elected Andreas Endters, Member of the Management of the company Voith GmbH & Co KGaA, as Vice Chairman of the Management Board. Stephan Plenz and Andreas Endters bear significant responsibility in their companies for the development and implementation of digital strategies and now also represent these forward-looking topics in the VDMA Association.

Kama GmbH



Shaping the future with Print 4.0 strategies: The Management Board of the VDMA Printing and Paper Technology Association met in Dresden on the invitation of Kama.

## KAMA website: New look, new content



New look, new content and responsive design: The machine manufacturer KAMA presents itself with a completely new website and picks up on important trends in post-press: short runs and efficiency, job printing and packaging market, finishing and added value as well as networking workflows across the entire value chain. Well-structured pages provide information on versatile and networkable solutions that make finishing and digital folding carton production more efficient, save valuable time during positioning, accelerate job changes, including software tools for process optimization.

With a fresh look and clear navigation, you can click through appealing pages with information all the way to break-even and economic efficiency. The new KAMA page is responsive, so you can order samples or test the configurator on your smartphone while you are on the move.

Kama GmbH

## LEDcure technology paves its way into rotary printing

LED technology from IST Metz scores in newspaper printing with top performance and modularity combined with cost-effectiveness with its LEDcure high-performance LED system for rotary printing. A clever modular basic concept in combination with its extremely robust and compact design allows the user maximum flexibility and versatility in economical operation. The system is freely scalable in length and can be adapted to all machine formats and installation situations. This makes it possible to use a LEDcure unit at different positions on a machine. The compact design in combination with decades of experience in machine integration on the part of IST Metz guarantees the user access to the machine at all times. With the new LEDcure, synergy effects between IST Metz and its subsidiary Integration Technology Ltd. (ITL) are becoming increasingly important. For example, the XT8 booster, which gives the LEDcure up to 30% more power. Other highlights of the LEDcure include the simple replacement of the optics and the option of upgrading the LED chips later.

At a customer event on 6 November, interested parties could experience the LEDcure live at the printing house of Nürnberger Nachrichten. Together with the Hubergroup and Technotrans companies, IST Metz and Nürnberger Nachrichten provided information on topics such as the deinking of UV/LED inks, UV curing control and the cost-effectiveness of LED systems.



With the LEDcure, UV curing specialist IST Metz dares to take the lead in rotary printing.

IST METZ GmbH

## Rapida 106 at Tosho Printing with top-class performance



Jorg Winkler (centre), service manager from Koenig & Bauer Sheetfed, congratulates the printers at Tosho Printing on their record-breaking achievement of 130 job changes in 11.5 hours

Tosho Printing in Kawagoe near Tokyo has been the proud owner of two Rapida 106 presses for four years now. One of those presses, a five-colour configuration with LED-UV drying, recently set a new record for the number of job changes in a single shift. Over the course of 11.5 hours, 130 jobs were printed with an average run length of 270 sheets. That is equivalent to over 11 jobs per hour!

Alongside the five-colour Rapida 106, the company operates another press of the same type in a four-colour version. Both are equipped with DriveTronic SPC for simultaneous plate changing, camera systems for production monitoring, QualiTronic ColorControl inline colour measurement, integration with the LogoTronic Professional management system, and many more cutting-edge automation features.

Koenig & Bauer AG

# Rapida sheetfed offset technology in Saudi Arabia

Several industrial packaging printers in Saudi Arabia operate sheetfed offset presses from Koenig & Bauer, among them Al Obeikan Folding Carton, Noor Carton for Packaging and Al Jawad Printing Press. Meanwhile, Rapida presses have also been strengthening their foothold among commercial users, and here in particular in government-run printing houses. An order for two new presses was placed by Gouvernement Printing Press in Riyadh. The company operates a Rapida 106 with six printing units, a coater and perfecting after the second unit. Alongside stands a six-colour Rapida 76 with coater and provisions for UV printing. Both presses print a variety of documents on paper and plastic substrates, for example passports, ID cards, driving licences or residence permits. Accordingly, the long list of features also includes corresponding facilities for rainbow printing. The high-end presses for half and medium formats are both engineered for production speeds up to 18,000 sheets per hour.

King Abdulaziz University Printing Press in Jeddah has been using a Rapida 105 since last year. The four-colour press prints books and magazines for the university and also incorporates board-handling equipment to cope with substrates up to 1.2mm. That provides for maximum flexibility in production. Further Rapida 105 users are Um Al Qura University Printing Press in Mecca and the Islamic University in Medina. Both presses are configured with four printing units, coater and extended delivery. The main products are likewise university magazines and books. One important reason for the positive acceptance of press technologies from Koenig & Bauer is the



Festive reception with representatives of King Abdulaziz University Printing Press at the commissioning of the Rapida 105

first-class advice given by regional sales partner Al-Kharafi. The close cooperation with the factories in Germany permits the fast realisation of tailored solutions.

Koenig & Bauer AG

# Rapida 76 for new era of security printing in Australia



The 4-over-4 press for the printing of passports incorporates an additional drying tower ahead of the perfecting unit.

For 20 years now, Note Printing Australia (NPA), as a close partner of KBA-NotaSys, has been using one of its security presses to produce not only banknotes, but also the inner pages of passports. To date, they have been printed in a combination of conventional and waterless offset. With the desire for greater design freedom and the ability to test new ideas on short-turnaround times, the company has switched to an exclusively wet-urn process with a half-format sheetfed offset press. A Rapida 76 with four printing units, a drying tower, a perfecting unit and four further printing units went into production in Craigieburn. This modern, high-performance sheetfed offset press enables NPA to introduce numerous innovative technologies. Numbering, rainbow printing and many other applications which are today standard in security printing can all be realised on the B2 press, thanks to the incorporation of a whole raft of special and newly developed features. Special accessories for the handling of lightweight substrates and plastic films round off the configuration. NPA is now able to print photorealistic images. To achieve this, parts of the image are printed in their full photographic resolution, while others are "softened". In addition, the press allows mixed UV operation, which means that certain security features can be incorporated into conventionally printed documents via a UV process. These features remain invisible under

normal light. If the image is held under a UV lamp, on the other hand, the security feature is revealed. A broad spectrum of automation functions serves quality monitoring and makeready savings, e.g., a facility to disengage unused inking units, fully automatic FAPC plate changers, CleanTronic Synchro for parallel washing of the blankets, impression cylinders and rollers in production with conventional and UV inks, non-stop pile changing at the feeder and delivery, and colour control on both sides of the sheet.

Koenig & Bauer AG

# New sales partner in Korea



The newly developed Evo XC from Koenig & Bauer

Following the successful start of the cooperation with Rieckermann in the markets Indonesia, Thailand and the Philippines, the partnership has been expanded to include also Korea. Rieckermann will similarly be taking over exclusive sales responsibility for the Vietnamese market. The partnership expansion was agreed at the Koenig & Bauer production facility in Tavazzano near Milan within the framework of the presentation of the new Evo XC.

Koenig & Bauer AG

## Semi-transparent Lumafin now also available for labels



Amazing effects: Label finished using the hot stamping process and the Lumafin transfer product from Kurz (Photo: Kurz)

Packaging designers and finishers involved in sheet-fed printing are already familiar with the semi-transparent Lumafin transfer product from Kurz, which allows the printing underneath to shine through in a mysterious manner. This finishing element adds unusual accents to packaging and can be used to produce designs that are surprisingly different and distinctive. With a new Lumafin grade for narrow web printing, the special light and color effects of this transfer product are now also available for roll-fed labels. Lumafin is available in grades for hot stamping, cold transfer as well as digital transfer. The product can be used like a dry varnish as a large-area or spot coating. It produces a semi-transparent color transfer and allows the printed motifs underneath to shine through in a deeper or modified color. It overlays the print image like a glossy shimmering veil and makes it appear as if at a depth. As the viewing angle is changed an eye-catching effect occurs: the semi-transparent varnish transforms into a high-gloss, metallic-like reflective color.

In addition to being available in a wide variety of standard colors, Lumafin can also be produced in customer-specific shades. Kurz also offers a special product line with a bronze appearance for vintage effects. Furthermore, a fully transparent variant of Lumafin also exists. In this case the transparent high gloss finish transforms into an iridescent white as the incident light changes. Lumafin produces an ultra-thin, flat layer when applied. This makes the transfer product highly suitable for the finishing of roll-fed labels as no distortion occurs as the labels are wound up. Furthermore, when Lumafin is applied by hot stamping no print unit is required. This eliminates the time-consuming cleaning of the print unit otherwise normally required before spot coating.

LEONHARD KURZ Stiftung & Co. KG

## Hybrid machine for hot stamping and digital printing

Kurz subsidiary Baier has launched a hybrid machine for stamping and digital printing which was developed to efficiently implement designs and labels for different model series, small runs and individualized products. The hybrid machine enables numerous variants of a mass-produced standard product to be implemented economically. The scope of variation extends from different product lines right through to customized surface designs. The hybrid machine comes with two decoration stations that can be used in any order: a hot stamping unit, and a module for digital four-color printing. The hot stamping unit is equipped with a stamping drum to which four hot stamping dies can be attached. This allows four different stamping designs to be arbitrarily employed. With the new quick-change system, design changeovers can be performed without tools. All configured designs can be selected via the controller and tried-and-tested process parameters stored for reuse. The hot stamping station is also equipped with two foil feed units that enable different hot stamping designs to be processed concurrently. This further-

developed feed system saves considerable time when changing the foil rolls, which can be prepared completely outside the machine. The four stamping dies and designs can be arbitrarily assigned to each of the two foil tracks. An especially wide variety of designs can be generated using hot stamping technology. These include metallization with a perfect chrome or steel look, holographic designs, or surfaces with a strikingly realistic wood, carbon, marble or opal appearance. The second decoration or labelling station of the hybrid machine is a CMYK digital printing unit which prints crystal clear images on plastic substrates at a resolution of 600 dpi. An additional print head for the color white can be integrated if there is a need to increase the contrast between the print color and the substrate. Both decoration processes can be performed in a single work operation. The component to be decorated is only placed in the part fixture once.

LEONHARD KURZ Stiftung & Co. KG



The new Baier hybrid machine for hot stamping and digital printing

## Packaging printer in Brazil increases productivity

Congraf, a packaging printer with 40-inch offset printing presses dedicated to industrial packaging printing, located in Sao Paulo in Brazil, purchased a POLAR die-cutting system DC-11 to increase productivity in the paper label section. This new POLAR system consists of a loading table, an AC 25 stack cutter, a die punching unit DC and a single-headed banding unit BD. The system works in combination with a POLAR 137 to pre-cut the strips of labels. The transition from manual die-cutting processes to automation with DC-11 has allowed the productivity to improve by double digits, especially in the product segment of beer labels. An essential component of the POLAR System DC-11 is the automatic cutting machine POLAR Autocut 25 (AC 25). A pusher device on the loading table feeds

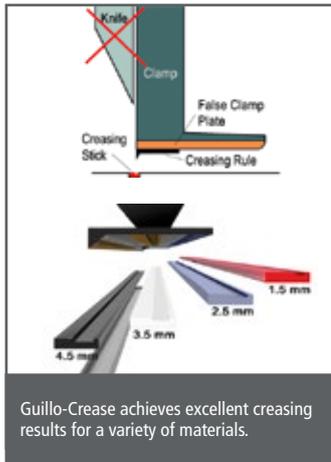
the automatic cutter with pre-cut label strips. The AC 25 cuts them into label stacks. Subsequently, a swivel unit transfers the stacks to the feeder of the die punching unit DC. After die-cutting the label stacks, a pusher automatically transports the processed labels to the single-headed banding unit BD. Because the single-headed bander uses ultrasonic technology, preheating is not necessary. The ultrasonic welding unit also prevents annoyance caused by a bad smell. This workflow offers an excellent performance of up to 960 bundles per 60 minutes.

POLAR MOHR Maschinenvertriebsgesellschaft GmbH & Co. KG



Happy with the new Polar cutting system: Sidney Anvesa (centre), the owner of Congraf; shown here with Marcelo dos Santos Henrique, Production Manager Postpress from Heidelberg do Brasil (right), and POLAR Regional Sales Director Joaquin Pujol (left)

## PROductivity Days with special cost advantages



Guillo-Crease achieves excellent creasing results for a variety of materials.

For a limited period of time, i.e., the PROductivity Days, POLAR Mohr will equip every model "PRO" high-speed cutter with performance-enhancing options as part of a special offer – at no extra charge. Throughout the PROductivity Days, all new orders for the high-speed cutter top-of-the-line model "PRO" will be equipped with a functionality upgrade as standard at no additional charge. The promotional period is limited to incoming orders until the end of the year (31 December 2019). All "PRO" high-speed cutter of sizes N 78, N 92, N 115, N 137, N 155, N 176 are qualified for the upgrade.

The upgrade includes three options: the Compucut® Control networking software, an ergonomic special floor mat with the POLAR logo printed on, and a

Guillo-Crease creasing device. Compucut® Control is the "Game Changer" of the option package and at the same time the most significant productivity advantage.

The automation software uses CIP 3/4 prepress data to generate cutting programmes at the click of a mouse automatically. Compucut® transfers the generated cutting programmes to the networkable "PRO" high-speed cutter. The software eliminates the make-ready time at the high-speed cutter since no manual programming is required. Also ruled out by the software are defects that could otherwise occur due to manually programmed jobs. The 21.5" touchscreen display of the high-speed cutter shows a process visualization with a real image representation of the sheet. Process visualization helps the operators understand in which direction to turn the layers after each cut. As a result, new or inexperienced employees can also comfortably operate POLAR high-speed cutters. The ergonomic floor mat prevents fatigue during long periods of standing. Its cushioning not only protects the operator's spine but also increases productivity. Guillo-Crease transforms every high-speed cutter into an all-rounder. It allows the quick and easy transformation of the high-speed cutter into a creasing machine. The option package offers customers a cost advantage of up to 11%.

POLAR MOHR Maschinenvertriebsgesellschaft GmbH & Co. KG

## Increased productivity with a new cutting system



Witnesses to the productivity boost: Joaquín Pujol García, Sales Manager of Polar-Mohr, Antonio Juárez Hidalgo, Production Manager of Encuadernación Huertas, and Angel Grutzmann, Product Manager of Heidelberg Spain.

Encuadernación Huertas, a printing and bookbinding plant located in the south of Madrid and specialized in hard and soft cover books, has bought a new POLAR system consisting of two new stack lifts on both sides of the cutter plus the new Polar N 176 cutter. The system works three shifts and is focused on paper trimming to feed the big sized presses and additionally on the finishing of the printed products. This has resulted in increased productivity in terms of speed, quantities, and cutting quality and precision. The system supposes a 20% increase compared to a stand-alone cutter. The efficiency of the operator remains constant due to a better ergonomics as the lift and descending of heavy material is not a burden anymore. Additionally, there is saving potential because of the knife changing system POLAR OPTIKNIFE which makes the knife last longer without grinding. The core part of the Polar System 120 is the Polar cutter N176 Plus. Its lift enables automatic material lifting onto a comfortable handling height for the operator to transfer the reams to the cutter. A second lift is placed to unload the material from the cutter. The lift can be optionally equipped with an angular plate which makes the unloading even more comfortable. The descending is half automatic, i. e. the cycle has to be started manually and will be stopped by the light barrier.

POLAR MOHR Maschinenvertriebsgesellschaft GmbH & Co. KG

## Mosca machines with new features



Made for Industry 4.0 professionals. The EVOLUTION SoniXs TR-6 Pro combines high-performance strapping technology with networked communication.

The strapping machine specialist Mosca is constantly improving its well-proven machines. One example is the EVOLUTION SoniXs MS-6-H which is already established as a high-speed performer for bulky goods. This machine now comes equipped with a vertical feeder and with solid cardboard edge protectors to reliably secure horizontally stacked layers. The solid cardboard protection elements are positioned on the four outer edges of the product to be packaged before the machine straps them horizontally. The standard EVOLUTION SoniXs MS-6-H magazine can be loaded with edge protectors in three different sizes. Along with the length of the entire element, the wing width and material thickness

are variable. This ensures the ideal protection for each application. The edge protectors are made from solid recyclable cardboard, which offers an eco-friendly alternative to

stretch wrapping or other methods that use plastic film to hold stacked layers in place. The EVOLUTION SoniXs MS-6-H equipped with edge protection remains true to its original features. Strapping performance is only minimally affected by the additional step of applying edge protectors. Thanks to intelligent product recognition, the machine can be used with a variety of product groups. Mosca's patented SoniXs ultrasonic technology is used to securely seal the strap ends. Both PET and PP straps are reliably sealed without a warm-up phase. The EVOLUTION SoniXs MS-6 KR-ZV version offers a tailor-made, cost-effective strapping solution for securing products to a substructure. This machine is specially designed for lightweight products on pallets, dollies or pallet cages. It operates with a reduced strap tension of up to 450 newtons, which eliminates the need for a safety enclosure or safety zone during operation. This lowers procurement costs and makes operation less complicated. The fully automatic EVOLUTION SoniXs TR-6 Pro handles up to 45 packages per minute, which makes it ideal for fast-paced logistics. Thanks to an integrated network interface, users can check and regulate machine operation at any time from any location.

Mosca GmbH

## Second bookline for Beijing Best Colour Printing



Shaking hands on the new BF 513 (from left): Sven Olsen (Managing Director Muller Martini Region Asia Pacific), Ji Shaohua (General Manager Beijing Best Colour), Volker Leonhardt (member of corporate management at Muller Martini), David Chen (General Manager Muller Martini North China Region)

In order to optimize the production of smaller print runs, Beijing Best Colour Printing Co. Ltd. has recently installed a Kolbus-brand BF 513 bookline from Muller Martini at its headquarter in the Chinese capital. At its plant in Hebei province, the full-service graphic arts company has relied on a Kolbus BF 527 bookline for several years now and is satisfied with the fast setup times and the high-quality of the end products. The customers of Best Colour Printing, which specializes in children's books and publications (especially for educational institutions and publishing companies), are asking more and more often for short runs of 1,000 copies or fewer. The BF 513 bookline reliably produces large print runs using conventional printing processes with quick processing times as well as small print runs with size changeovers that are printed digitally. Because the machine is so user friendly and is capable of a wide range of applications, it is the perfect entry-level solution for industrial hardcover production. The BF 513 has a hand-operated barcode reader in the feed zone that can be used to access new orders from the title memory storage. The operator can "feed" subsequent orders into the title memory storage during production, thus reducing setup times.

Müller Martini AG

## Open house event at Muller Martini Japan



At the open house event hosted by Muller Martini Japan, the some 50 visitors saw at firsthand the many possibilities and benefits offered by increased automation via a live demonstration on the Primera MC saddle stitcher.

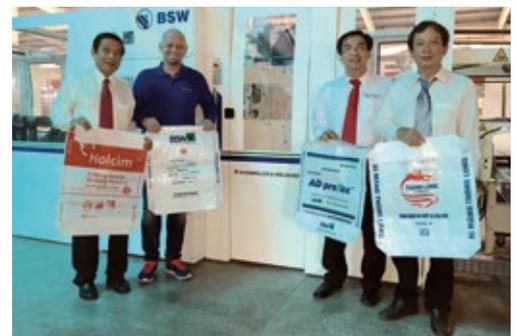
The some 50 visitors of the open house event at Muller Martini Japan in summer this year were visibly impressed. During the live demonstrations on the Primera MC saddle stitcher, they could follow on two large screens how the production processes are controlled and monitored via Connex.LineControl and Connex.Info. In order to demonstrate the numerous possibilities and benefits of automation following the saddle stitching process to the customers at the event, the Primera MC saddle stitcher was set up in the showroom in an inline configuration with a compensating stacker, a labelling machine from ATS Tanner and a local bundle film wrapper. Also on show here were two 3738 stream feeders, the Asir 3 system used for quality checks in image and barcode recognition, the Semko lateral thickness control, Smart Stitch Control and a TrimWatcherPlus for inspecting the products following trimming. With these exact quality controls and automation systems, the machine can be run by one operator. The presentation of the smart factory for the production of ultra-short runs and book-of-one productions in perfect binding also generated some major interest. The fact that Müller Martini can also implement decentralized production with smaller production cells thanks to the Vareo perfect binder and InfiniTrim three-knife trimmer is absolutely unique, and is also a very interesting prospect for customers in the Japanese market – which is also characterized by decreasing run sizes with an increasing number of titles.

Müller Martini AG

## Woven in Vietnam with the new converTex SLC 120

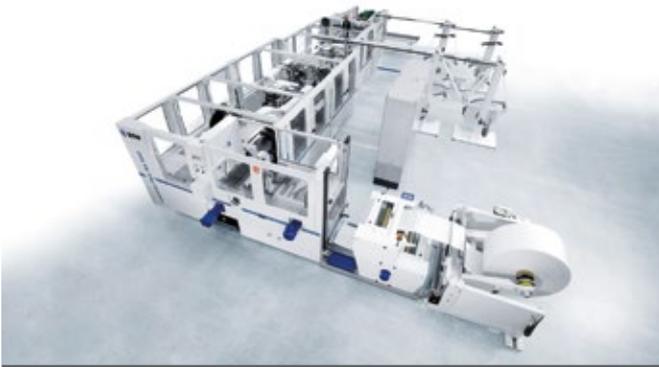
BSW MACHINERY, subsidiary of Windmüller & Hölscher, has successfully installed and commissioned another high-speed woven bag conversion machine converTex SLC in Vietnam. This converTex PP block bottom valve bag conversion machine allows production rates of 120 AD proTex bags per minute. Sadico, located in Can Tho in the south of Vietnam, is a manufacturer of woven Polypropylene sacks. A core product in Sadico's portfolio is the cement sack made of woven PP. In order to introduce a more sustainable solution for packaging, Sadico introduced the AD proTex bag design to the major cement manufacturers. This sack design is a superior alternative for the presently used sewn-type 3-ply and 2-ply sack, made from a combination of paper and woven PP. With the newly installed converTex SLC Sadico is able to produce both single ply AD proTex sacks as well as 2-ply AD proTex sacks. The AD proTex sack will not only allow lighter bags and reduced material consumption, but will also avoid sewing or gluing of the sack with adhesives. The W&H patent allows Sadico to seal a block-bottom valve sack with the usage of hot air instead! This results in a very sustainable sack production with no sacrifice on sack quality and strength. Together with the converTex Sadico also invested in the extrusion coating line ecoTex 1600L and advanTex circular weaving looms.

WINDMÜLLER & HÖLSCHER KG



Sadico takes over the new converTex SLC valve bottomer from BSW MACHINERY. From left: Sadico's Chairman and General Director Mr. Nguyen Phu Tuo, converTex specialist Mr. Martin Gruenboeck of BSW MACHINERY, Mr. Le Ngoc Anh of Rieckermann and Sadico's Vic

## Say Hi to the Future



The valve bottomer CONVERTEX

At the K 2019 Trade Fair for Plastics and Rubber in Düsseldorf in October this year, Winkler & Dünnebieber presented new machine technologies and packaging solutions, i.e., for efficient production, sustainable packaging and PACKAGING 4.0. The highlight for trade fair visitors was the VAREX II blown film line. The daily machine show featured live demonstrations of the new TURBOSTART assistance system, which enables time savings of up to 50% when stopping and starting the line. Furthermore, the CONVERTEX bottomer for PP woven bags could be seen in operation. On four exhibition days, another 13 lines including extrusion, printing and converting machinery could be seen at the W&H headquarters in Lengerich.

Film manufacturers are continuously working on optimizing their machine utilization and film quality. Since film manufacturers stop and start their lines at least once a day, often even more, for example for cleaning and maintenance, the goal of the W&H experts was a system that makes the process fast, safe and simple, and TURBOSTART is the answer. At the trade fair, W&H showed live the stopping and starting of a VAREX II blown film line with TURBOSTART in less than 15 minutes – compared to at least 30 minutes without automation. The operator can activate TURBOSTART and control the process at the touch of a button on a screen of the PROCONTROL operating panel. Manual work on the machine has been automated to the greatest possible extent.

At K 2019, machinery manufacturer W&H also launched RUBY, a new IoT system for digitizing the value chain in the packaging industry. By connecting digital data with process knowledge, W&H now offers several possibilities for data-based optimization of the production process from increasing productivity to quality management. RUBY is offered as a standard platform with tailor-made extensions for extrusion, printing and converting. RUBY offers a user-friendly interface, which displays all data and data services. Since the 90s, W&H has had a central, digital information system called ISP, which many customers have used to collect and display production and process data. RUBY automatically evaluates this data and is the basis for additional digital services to further optimize these processes. With the extensions, W&H offers enhancements for each specific type of machine.

The DIE CONTROL WIZARD from W&H is an automation module specially developed for the FILMEX II cast film line. With the DCW, fully automated width and thickness changes are possible in the shortest possible time during production. Manual adjustment of the dies is no longer necessary. A complete width change from one production order to the next can be carried out with the DCW within 20 minutes, which in the past meant up to 90 minutes of manual work. Shorter changeover times enable film manufacturers to respond quickly and flexibly to new requests.

WINDMÖLLER & HÖLSCHER KG

## W&H with stronger presence in Indonesia

Machinery manufacturer W&H has been significantly enhancing its local presence in Asia-Pacific and now also has a fully owned subsidiary with local service and support teams in Jakarta, Indonesia. The specialist for machines for flexible packaging has been present in the Asian-Pacific Market for more than 60 years. Today the WHAP team consists of more than 130 people, among them more than 65 service technicians who support with technical solutions, maintenance and spare part services. Customers are also offered the Life Cycle Services (LCS) concept which enables them to benefit from the vast experience of W&H process engineers who support them in the improvement of the production and performance of the equipment and surrounding processes.

WINDMÖLLER & HÖLSCHER KG

## Innovative latex-free adhesive dispersion for application paper

Planatol breaks new ground in the coating of application paper with the innovative and modified adhesive Planatol Planatex BP. In practice, such papers are used in a wide variety of applications in indoor or outdoor areas. Planatol's high-quality adhesive is ideal for both dry and wet applications and leaves no adhesive residue whatsoever during wet transfer. The application paper can be easily removed from the roll and also has excellent flatness. The product does not tend to block or transfer adhesive when applied in the roll. The adhesive dispersion has a medium adhesive force setting and very good ageing and UV stability. Whether large or small areas, whether on glossy or matt substrates, whether lettering or logos – the high-quality coating with Planatol Planatex BP is characterized by easy handling, crease-free application and consistent processing quality.

Planatol System GmbH

## Planatol Ultimate H1500 – the new packaging adhesive

The demands placed on high-performance and functional packaging are constantly growing, as this can be the decisive factor in the purchasing decision, especially in the consumer goods sector. With Planatol Ultimate H1500 Planatol completes the packaging adhesive portfolio in the Ultimate family with another high-quality member. The Planatol Ultimate H1500 is characterized by excellent processing and product properties, very high adhesion to difficult substrates, e.g. varnished or laminated surfaces, high hot tack and good low-temperature flexibility. Planatol Ultimate H1500 provides excellent adhesive strength and effectively absorbs recovery and shear stress, even with ideal, low adhesive application. The low application rate and the associated low adhesive consumption have a lasting positive effect on the environment as well as on economic efficiency. In addition, the new packaging adhesive Planatol Ultimate H1500 has high colour and oxidation stability and, together with low odour nuisance, ensures high process reliability for the user.

Planatol System GmbH

# New in the Planamelt range – the **Planatol Planamelt HSP**

Planatol is expanding its product group Planamelt, the hot melt technology for the further processing of graphic products. The new Planatol Planamelt HSP combines simplicity and efficiency with highest quality. The plasticizer-free Planatol Planamelt HSP hot melt adhesive is ideal for perfect binding of books, catalogues, brochures or magazines on all common automatic perfect binding machines. It can also be used for subsequent rounding of the book spine and for gluing thread-stitched brochures. The polymer base of the Planamelt family gives the adhesives various advantages over a standard EVA back glue that benefit the user. The adhesives impress with their better adhesive strength and better oxidation stability, which requires considerably less cleaning. Furthermore, Planatol Planamelt products convince by a good oil resistance, significantly better blade edge adhesion and durability of the finished

products. The considerably lower odour emission as well as the higher heat and cold resistance have a very positive effect on process reliability. As the abbreviation "HSP" for High Speed Performance already suggests, Planatol Planamelt HSP scores with uncomplicated, efficient bonding. Combined with a very short open time and setting time, this adhesive is ideal for very short processing lines or times – even with difficult papers. The cost-efficient adhesive guarantees a very high economic efficiency. The associated savings potential in maintenance and machine costs not only has a positive effect on costs, but also protects the environment.

Planatol System GmbH

## PrintPromotion Partners

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# Printers' Guide

## Standards in offset printing – an overview and updates I

The print media world is governed by norms, standards, guidelines and regulations. But which ones are relevant to us and what is new in these standards?

Around the globe, there are numerous regionally applicable regulations and standards. They include, inter alia, the Process Standard Offset for the German-speaking area, the JapanColor Characterization Data for the Asian region, the guidelines and characterizations of the 3DAP – Digital Data Delivery for Australian Productions as well as the GRACoL General Requirements for Applications in Commercial offset Lithography and the SWOP Specifications for Web Offset Publications for the printing industry in the US.

The most important internationally applicable basic regulations, are, however, the ISO standards. The ISO International Standards Organisation prepares standards for

all spheres of life, only excluding the electrical industry, and thus also for the printing industry including the associated industries. A short survey of all ISO standards that are important for offset printing is given below:

- ISO 12647-2 – Standard re process control in offset lithographic processes
- ISO 12647-3 – Standard re process control in coldset offset lithography on newsprint
- ISO 12647-4 – Standard re process control in publication gravure printing
- ISO 12647-5 – Standard re process control in screen printing
- ISO 12647-6 – Standard re process control in flexographic printing
- ISO 12647-7 – Standard for proofing processes working directly from digital data

Due to the different materials and process technologies being used, the standards cannot be applied in every printing process without any difficulties. In offset printing, however, the standards are of rather great importance. It is everyone's own decision whether to seek certification according to ISO or to use the standards only as a guide for the company's own standards. The most important standard for sheet-fed offset printing is ISO 12647-2:2009, which was replaced by the new standard ISO 12647-2:2013. However, it will take some time until these new provisions will actually be applied in the daily routines of printing companies, agencies and the end

customers. To make that easier, this article will briefly explain the most important new provision. Much of what is specified therein refers to other parts of further standards as, e. g.:

- ISO 13655 – Spectral measurement modes M0, M1, M2, M3
- ISO 3664 – Viewing conditions/ Light source
- ISO 2846 – Standard for printing inks
- ISO 15397 – Graphic paper properties/ Degree of brightening

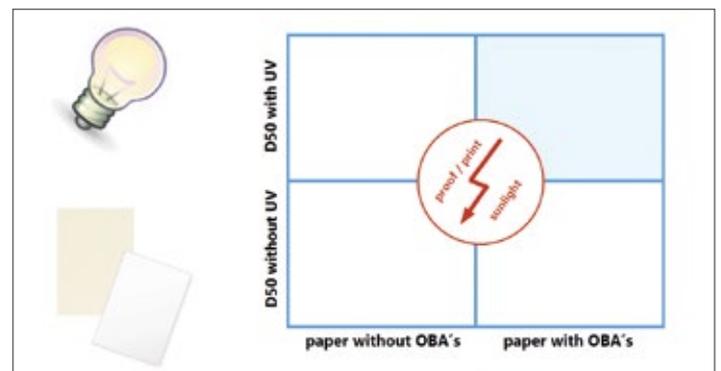
The basic production guidelines, target values and tolerances are defined in ISO 12647-2 with the aim to reach uniform, predictable and constantly reproducible print results at a consistent quality level independent of the technical conditions. Furthermore, the print services provider is enabled to increase automation, to evaluate all results using technical instrumentation and to remove potential sources of errors fast and systematically.

Due to technical innovations and, above all, new paper properties, there are crucial novelties in the ISO 12647-2:2013.

### The previous problem

The D50 standard light for the graphic arts industry describes a neutral colour temperature and is based on a light source in Central Europe approximating a partly cloudy sky. What had not been taken into consideration is the UV portion in this light source. In contrast to sunlight, which has a high proportion of UV components, only a low, undefined UV component was factored in in measurements and the ambient light. During recent years, however, interest in paper grades with optical brighteners, the so-called OBAs (optical brightening agents), has risen. Due to the reaction of the fluorescent substances in paper with the UV component in the light, there are differences in the perception of colour under different light sources. This means that a printed product printed on a paper with a high proportion of OBAs has a bluer appearance under sunlight than under standard light with only a very low proportion of UV component.

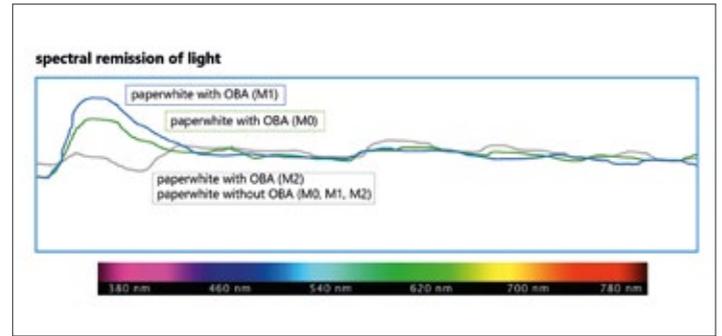
Therefore, ISO 12647-2:2013 is based on new measuring conditions and papers have been reclassified, also in view of the number of optical brighteners.



### Measuring conditions according to ISO 13655:2017

In order to be able to record the effects of the optical brighteners in the total environment of the printing company also with measurement instrumentation, the measurement conditions M0, M1, M2 and M3 were already defined in ISO 13655:2009. This standard was revised by ISO 13655:2017.

For the colour measurement of proofs and printed end products, ISO 12647-2:2013 requires measurement mode M1 to be used. The measuring mode can be set in all recent spectrophotometers. If printed products, printed according to the old standard, are available as a sample and if the colours are to be compared effectively, measurement mode M0 can be used. For measurement during printing with an active polarization filter, measurement mode M3 can be used.



<b>M0</b>	D50 with an undefined UV component	No polarization filter	Conventional colour measurement until FOGRA 50
<b>M1</b>	D50 with a high, defined UV component	No polarization filter	Physical, correct colour measurement taking into account the brightening – FOGRA 51 / FOGRA 52
<b>M2</b>	D50 without UV component	No polarization filter	“UV Cut” colour measurement, completely without UV component
<b>M3</b>	D50 without UV component	With polarization filter	Spectral and densitometric colour measurement in printing with wet-dry compensation

### Brightening degree of printing paper

In the production of paper, more and more optical brightening agents (OBAs) are being added to the paper; furthermore fluorescent substances in order to make the paper brighter, whiter and thus more attractive. This applies, in particular, to uncoated grades, but also many special papers. In order to determine the amount of OBAs, you have to compare the paper white values measured by means of a spectrophotometer under measurement conditions M2 and M1. The brightening degree can be determined by comparing the difference between the b-values. The paper industry calculates it by means of the UV index.

Brightening degree	Printing industry $\Delta b$ (M1-M2) according to ISO 13655 (0°/45°, 2° standard observer)	Paper industry $\Delta B$ UV-Index according to ISO 2470-2 (D65 brightness, 10° standard observer)
no	0 – 0.5	0 – 1
weak	0.5 – 1.8	1 – 4
low	1.8 – 3.6	4 – 8
medium	3.6 – 6.3	8 – 14
strong	6.3 – 11.3	14 – 18

The effects of the ambient light on the reproduction of colours can be seen when looking at the brightening degree. If the Lab-value of paper white is approximately the same under measuring conditions M1 and M2, the paper does not contain OBAs and the influence of the UV component on the reproduction of colour equals zero. The higher the difference between the b-values, the higher the influence of ambient light with and/or without a UV component.

Further details regarding the new paper classification and printing condition will be given in the next edition of the Printers' Guide.

### Color matching conditions according to ISO 3664:2009 and ISO 13655:2017

The assessment and viewing of printed products is carried out in accordance with specific standardized requirements. Colour matching light, for instance, is defined as D50 with an illuminance of 2000 lux  $\pm$  500 lux. The UV component of the colour matching light is strictly specified in ISO 3664:2009 with the result that the ambient light is closely aligned with the new measuring conditions M1 according to ISO 13655:2009.

In the same standard, the measurement device settings as, e.g., the M1 measurement mode, gloss-free measurement under 0°/45 or 45°/0°, the 2° standard observer or the matte white substrate for proof measurement and/or matte black substrate for print run measurements are also precisely defined.

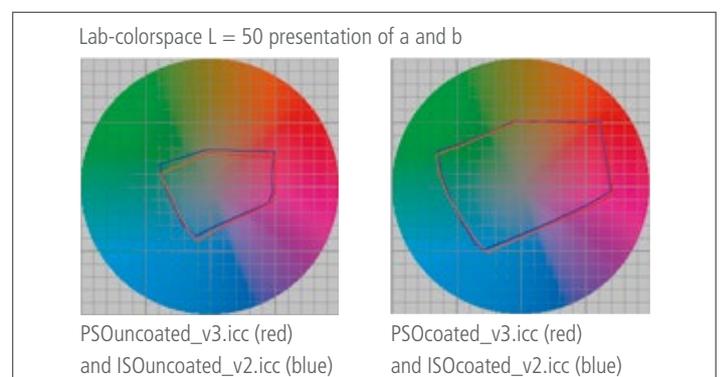
### ICC profile according to ISO 12647-2:2013

Taking the new paper classification and measurement conditions as a basis, new characterization data for sheetfed offset printing were defined for specific papers within the scope of the standard printing conditions. For printing condition 1 (coated paper) and printing condition 5 (uncoated paper) with measurement condition M1, the following characterization data are applicable:

- FOGRA 51 – Sheetfed offset printing condition 1 / Paper class 1
- FOGRA 52 – Sheetfed offset condition 5 / Paper class 5

These concrete characterization data were used by FOGRA in cooperation with the ECI in order to define the new ICC profiles for sheetfed offset printing:

ISOcoated_v2.icc	FOGRA 39	ISO 12647-2:2009
↓	↓	↓
PSOcoated_v3.icc	FOGRA 51	ISO 12647-2:2013
ISOuncoated_v2.icc	FOGRA 47	ISO 12647-2:2009
↓	↓	↓
PSOuncoated_v3.icc	FOGRA 52	ISO 12647-2:2013



Further innovations, above all for proofs and for printing, will be explained in the next article of the Printers' Guide.

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