

Heidelberg and Gallus at Interpack 2017: Pioneer in the field of digitization for the growth market of packaging printing

- “Smart Print Shop – Zero Defect Packaging”: Heidelberg presents solutions for defect-free, industrialized folding carton and label production
- Prinect Packaging business intelligence platform plays a key role in the production process
- Digital packaging and label production offer new opportunities
- Heidelberg showcases its entire range for packaging printing in Wiesloch-Walldorf



The appearance by Heidelberg and Gallus at Interpack will focus on the challenges of defect-free packaging production from the point of view of brand companies.

In the face of progressive globalization, brand companies with an international sales and production infrastructure also have a growing need for additional packaging variants, a more individual sales approach, and a shorter time-to-market. This increases complexity and the risk of defects in packaging production. On the other hand, the digitization of all key process steps in production offers a way of greatly reducing this risk of defects, or even eliminating it altogether. Heidelberg Druckmaschinen AG (Heidelberg) and its Swiss subsidiary Gallus will therefore be presenting a range of solutions and measures aimed at automating quality assurance and control, all integrated in the entire workflow and the participating machines in an intelligently networked production environment, under the motto “Smart Print Shop – Zero Defect Packaging” at the upcoming Interpack, taking place from 4 to 10 May in Düsseldorf. These solutions and measures are designed to boost the international competitiveness of packaging producers by enabling reliable, productive, and economical production, especially of defect-free, high-quality folding cartons and labels in offset, digital, and flexo printing.

Zero Defect Packaging

Save the date – Heidelberg and Gallus
at Interpack 2017 in Düsseldorf, May 4–10

Avoiding, identifying,
and eliminating errors.
Simply Smart.

- Color management for production that spans various production-sites and bolsters brand identity
- Automate processes and eliminate manual interventions as far as possible
- Use digital technology to master complexity smartly and reliably
- Save time and money with intelligent error detection and elimination

Talk to our packaging experts. We look forward to seeing you!
Hall 13, Stand D75 and E82



With its presence at the trade fair, Heidelberg also wants to underline the strategic significance of the growth market of packaging and label printing for the further economic development of the company.

“The appearance of packagings at the point of sales has a direct influence on the purchase decision and the brand experience of consumers. Depending on the market segment, poorly produced packagings – even just variations in color – can result in loss of image as well as a high liability risk. The Heidelberg promise of “Zero Defect Packaging” therefore fulfills the requirements of brand companies for flawless packagings from an aesthetic, legal, functional, and marketing point of view,” says Stephan Plenz, Member of the Management Board responsible for Equipment at Heidelberg. “Heidelberg is the leading provider in the industry that can guarantee digitized and industrial packaging production with a defect-free, standardized end result. Our intention is to continue to expand our offering in this growth market.”

Trade fair presentation focuses on the challenges associated with defect-free packaging production from the point of view of brand companies

Visitors to the Interpack trade fair, especially from brand companies, packaging producers and print shops, will be able to speak to experts and get detailed information about the various topics relating to defect-free, industrialized packaging printing at Heidelberg’s stand in hall 13. The appearance by Heidelberg and Gallus at Interpack will focus on the following: the question of a color management system that can span different sites and production methods, the reduction of complexity and therefore susceptibility to defects as well as the means to safely and reliably identify incorrectly printed products without delay and remove them directly from the press or postpress process while production is underway. As part of this process, Heidelberg will show how a zero-defect principle can be implemented across the entire production process, from prepress through press to postpress.

Prinect Packaging workflow plays a key role

The integrated Prinect Packaging workflow developed by Heidelberg plays a central role here, by laying the foundations for industrialized production. It enables automation of the workflows – from order acceptance, through structural design, prepress, and press through to postpress – and facilitates intelligent communication between the areas in order to prevent defects. Using Prinect as a central business intelligence platform, all the management and production processes in a print shop, including customers and suppliers, can be intelligently integrated and centrally controlled. Prinect integrates Heidelberg’s offset and digital printing systems into one continuous workflow, and offers comprehensive functions for quality assurance and documentation as well as standardization and production of repeat jobs. This also includes the latest versions of the Prinect Inpress Control color measurement system and Prinect Image Control control system as well as the Prinect Inspection Control printed sheet inspection system, which are crucial for defect-free production. The end result is a fully automated and industrialized printing process where manual interventions are reduced to a minimum.

Navigated printing prevents operating defects and increases productivity

Navigated printing is made possible by Heidelberg’s patented Intellistart 2 software. Automatic processes are autonomous completed in parallel and in a logical sequence insofar as possible. Intellistart 2 automatically calculates the quickest sequence for the job change and reliably and safely navigates the operator through the makeready process.

Zero defects in digital packaging and label production too

Heidelberg is responding to the demand for serial or even customized packagings and labels with the Primefire 106, the first digital printing system in B1 format for industrialized printing applications, presented at drupa as well as the Gallus Labelfire 340 for digital label production. The Primefire 106 features Perfect Stack technology for automatically removing incorrectly printed sheets from the process and immediately and correctly reprinting them. Integrated barcodes and QR codes or even serial numbers can also be added to all sheets for complete traceability. The Gallus Labelfire label printing system also provides the option of individually identifying entire packages or even the individual label. Inspection systems can be used to register locations in packages with missing labels as well as incorrectly printed or damaged labels so they can be corrected in

downstream systems by removing or reprinting them.

Gallus will also be presenting its new process, “Metallic Doming”. It can be used to produce raised textures with metallic luster on plastic substrates using rotary screen printing. The result is a haptic sensation that could previously only be produced using hot-foil embossing on paper substrates. Effects of this type are now also possible on tube laminates as well as PP and PE substrates thanks to Metallic Doming.

Clearing the final hurdles in postpress

The Diana Eye offline inspection system uses a reading device or camera to measure the image and contour as well as finishing effects – including coated surfaces, foils, and holograms – in each individual folding carton blank and compares everything against a reference image. Tolerances can be set and deviating results are automatically removed.

Heidelberg “Zero Defect Packaging” Info Day in Wiesloch: Comprehensive presentation of the Heidelberg range for industrialized packaging printing

Directly after Interpack and continuing the trade fair motto, packaging printers will have the opportunity to see a comprehensive overview of the company’s range of digital and offset printing presses, the Prinect business intelligence platform, and services and consumables for defect-free packaging printing as part of a Heidelberg Info Day “Zero Defect Packaging” on 10 May in the Print Media Center Packaging at the Wiesloch-Walldorf site. Experts from Heidelberg will be available for all questions and to discuss details.

“Smart Print Shop – Zero Defect Packaging”

Visitors to the Interpack trade fair, taking place from 4 to 10 May in Düsseldorf, will find the joint Heidelberg and Gallus stand in hall 13, stand D75/E82. Those interested can also find further information on “Smart Print Shop – Zero Defect Packaging” ahead of time.



“Smart Print Shop – Zero Defect Packaging”: Heidelberg will be presenting its solutions for defect-free, industrialized folding carton and label production Interpack 2017 in Düsseldorf under this motto.



The appearance of packagings at the point of sales has a direct influence on the purchase decision and the brand experience of consumers. Heidelberg is the leading provider in the industry that can guarantee digitized and industrial packaging production with a defect-free, standardized end result.

Industrial print shops increase overall productivity using innovative folding machines from Heidelberg

- Buxton Press replaces four folding machines with two new Stahlfolder TH 82-P machines and increases capacity by 20 percent
- Druckhaus Waiblingen improves corporate value creation thanks to a new Stahlfolder KH 82-P
- More than 50 machines of the new Stahlfolder TH/KH 82-P drupa generation sold – optimum integration into the printing process

“Prepress and press have already been highly automated for a long time and they work with digitized processes. At drupa 2016, we saw the new Stahlfolder TH/KH 82-P folding machine generation and knew straight away that postpress has now also developed significantly in terms of technology,” explains Kirk Galloway, Managing Director of Buxton Press in Derbyshire, England. The extensive tests subsequently carried out in Germany confirmed this impression and resulted in the purchase of two Stahlfolder TH 82-P machines from Heidelberger Druckmaschinen AG (Heidelberg). The first buckle plate folding machine has been in operation since January, the second will be delivered in March and a third machine is already being considered. The Stahlfolder TH/KH 82-P generation works on the shingled folding principle. This means that more sheets can be processed on the same line, resulting in a performance increase of up to 50 percent without raising the machine speed. High folding quality is thus guaranteed, even with delicate papers.

The two new Stahlfolder TH 82-P machines at Buxton Press replace four older folding machines and will also provide twenty percent more folding capacity. “We print more than 60 million publications per year and supply our customers with top quality, value for money products, produced on schedule. Our extensive range of folding machines is designed to facilitate an extremely wide variety of types of signatures, which is why flexibility, programmability and user-friendliness are key factors for us – criteria that the new Stahlfolder TH 82-P machines optimally meet,” says Galloway, explaining the reasons for the investment. Above all, the new folding machines fit perfectly into the high output process of the four Speedmaster XL 106 eight and ten-color machines with perfecting device and CutStar. With its 124 employees, Buxton Press is one of the leading printers of catalogs and magazines in England, and it produces, for example, 650 periodic publications for more than 400 publishers. Customers rate the print shop, which works with state-of-the-art technology, very highly – Buxton Press has been named “Printing Company of the Year” by the English magazine PrintWeek, latterly for three years in a row. www.buxtonpress.com

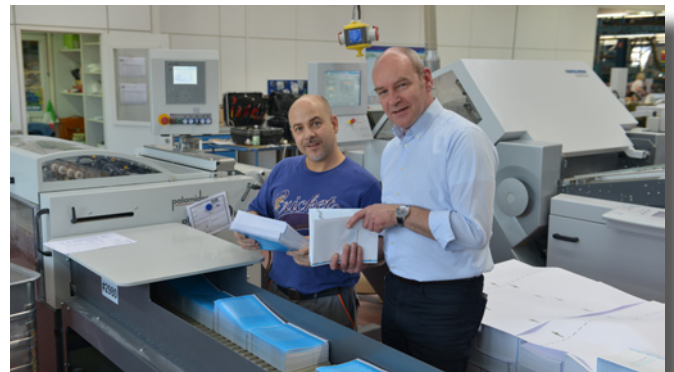
Druckhaus Waiblingen improves corporate value creation thanks to a new Stahlfolder KH 82-P

Druckhaus Waiblingen Remstal-Bote GmbH has chosen a combination folding machine once again – one reason for this is the smaller footprint in comparison with a comparable buckle plate folding machine. The company was impressed by the new Stahlfolder KH 82-P folding machine generation’s innovative concept. Since the autumn of last year, a KH 82-P combination folding machine has been used in production at Druckhaus Waiblingen. “We’re very happy with the performance and quality of our four Stahlfolder combination folding machines. The new machine has enabled us to increase our capacity even more and helps us to meet our target to increase our company’s value creation,” confirmed Joachim Battermann, Production Manager, Sheetfed Printing. The fully-automatic Stahlfolder KH 82-P processes the sheets in shingles in both the parallel and the cross-fold unit. “The KH 82-P sets the bar much higher in comparison with our existing combination folding machines. From the very outset, we were able to completely integrate the folding machine into the production process and meet the increased demand more effectively,” says Battermann. Druckhaus Waiblingen is planning the next major investment for the summer – then, a four-color Speedmaster XL 106 and a five-color XL 106, each with a coating unit, will be installed in the press room. “With Heidelberg, we have found the partner who has presented us with exactly the right solutions for our needs – the high level of productivity of the presses can be used in postpress without any problems and we can supply our customers even more quickly, with top quality products,” explains Battermann. Druckhaus Waiblingen produces high-quality, premium sheetfed printed products, such as company reports, catalogs and magazines. In the field of newspaper rotary printing, the company

produces five daily papers, weekly newspapers, supplements and newspaper-type magazines. The printing company, founded in 1839, is still family-run and now has more than 100 employees. www.dhw.de

The needs of industrial print shop customers met to the full by the new Stahlfolder TH/KH 82-P drupa generation

The new Stahlfolder TH/KH 82-P generation is based on the proven Stahlfolder TH/KH 82 platform. Customers and users are familiar with the basic technology, and imposition layouts do not have to be changed in order to benefit from the improvement in performance. By transferring the technology from the Stahlfolder TX 96, the shingled folding principle was integrated into the existing platform. The “P” stands for the plus points of performance, quality and reliability. Industrialized commercial printers with peak performance machines from the Speedmaster XL series in 70 x 100 cm format, or book binders with an annual production of more than 30 million sheets rate the Stahlfolder TH/KH 82-P highly. Standardized signatures, such as 16 pages of A4 or 32 pages of A5, can be produced in top quality – even with difficult substrates. More than 50 machines have already been sold throughout the world; numerous print shops have invested in two Stahlfolder TH/KH 82-P machines and some have even purchased three or four Stahlfolder TH/KH 82-P machines.



Joachim Battermann (right), Production Manager Sheetfed Printing, and operator Pierluigi Airi from the Druckhaus Waiblingen are satisfied with the quality and performance of the new Stahlfolder KH 82-P



The Stahlfolder TH 82-P was introduced at drupa 2016 and increases the output without raising the machine speed by shingling the sheets.



With the Stahlfolder KH 82-P the sheets are processed in a shingle in the cross-fold unit for the first time.

Heidelberg Info Day on Zero Defect Packaging. May 10, 2017, Wiesloch-Walldorf.

Smart Print Shop. **Zero errors in packaging printing.**

Continued globalization, rising demand for different types of packaging, and a shorter time to market are being accompanied by increases in complexity and thus the risk of errors in production operations. At the Heidelberg Info Day on Zero Defect Packaging, you can find out how easy it is to master this growing complexity by creating a smart print shop and using automated quality assurance solutions.

Overview of topics

18,000 sheets an hour – error-free delivery pile

Using the example of a Speedmaster XL 106-6+L, we'll show you how the Prinect Inspection Control 2 inline inspection system can reliably identify even the tiniest printing errors on every sheet at maximum printing speed and remove the affected sheets via the waste ejector in the Preset Plus Delivery to ensure an error-free pile.

Push to Stop – large-format navigated printing

Fewer manual interventions, fewer errors: experience the unique performance potential of the Speedmaster XL 145-6+L in combination with the new Prinect Press Center XL 2 and Intellistart 2.

Full quality control thanks to in-house postpress

By not outsourcing postpress operations, you benefit from time savings and enhanced quality. Using the examples of the Promatrix 106 CSB and Diana Easy 115, we show you how to achieve maximum process reliability and how to develop professional postpress operations that fit seamlessly into the Push to Stop philosophy.

A multitude of color tones with few colors – Prinect Multicolor Workflow

Multicolor technology from Heidelberg supports up to 950 different Pantone spot color tones. We will demonstrate to you the benefits of this technology, using the example of a Speedmaster XL 75-8+LYYL with the Anicolor 2 short inking unit. You'll find out how you can produce a color-consistent run even with a large number of spot color tones.

Workshop – integrated print shop management

The value chain begins with the initial customer contact and ends with the job's actual costing. Learn how you can minimize typical errors in job management, job preparation, and production, thus saving time and

money and ensuring proven error-free production for customers. Think zero errors is impossible? Then come to our workshop and find out how to get closer to this ideal with intelligent data management and automation.

Complex jobs made easy with digital – Primefire 106+L

The ability of the Primefire 106+L to process variable data gives you a permanent overview of operations, including serialisation and personalized jobs. But how? We'll show you on a model of the digital printing system for industrial packaging printing.

Welcome dinner and opening

May 9, 2017, 7.00 p.m.

Welcome Dinner at the Heidelberg Print Media Academy, level 12

May 10, 2017, 9.00 a.m.

Opening of Info Day on Zero Defect Packaging

Followed by: "Focus on the entire Value Chain: Avoid mistakes and boost efficiency" – opening presentation by Anthony Thirlby, General Manager, Prinect

Times of demonstrations and workshops

Speedmaster XL 106-6+L

10.00 a.m. and 1.45 p.m. (ENG)

Speedmaster XL 145-6+L

11.00 a.m. and 2.45 p.m. (ENG)

Promatrix 106 CSB/Diana Easy 115

10.30 a.m. and 2.15 p.m. (ENG) /11.30 a.m. and 3.15 p.m. (ENG)

Speedmaster XL 75-8+LYYL, Anicolor 2

11.30 a.m. and 3.15 p.m. (ENG)

Primefire 106+L Info Point

10.45 a.m., 2.00 p.m., 3.00 p.m. (ENG)

"Integrated print shop management" workshop: 10.00



a.m.– 4.00 p.m. – Discussion of practical examples, gallery Floor 1.

Zooming in on detailed information

Our “zoom-ins” supply further information and enable you to share experiences and know-how with our experts.

- Inspection – inline or offline, ejection or marking, at the press or postpress stage – Prinect Inspection Control, Diana Inspection Control, Diana Eye 55
- Multicolor Workflow – a multitude of color tones with few colors, 950 spot color tones
- Predictive Monitoring – uninterrupted production with much higher machine availability
- Gallus Labelfire 340 – industrial label production with variable data
- Heidelberg Saphira Power Cleaner 300 for anilox rollers – amazingly easy mechanical cleaning for even coating
- Prinect Packaging Workflow – process automation from ordering to delivery, from design to finished carton.

Find out about our partners’ latest offerings at the Info Points in the Print Media Center – from auxiliary materials and logistics solutions to substrates.

The Heidelberg Info Day on Zero Defect Packaging takes place at the Print Media Center Packaging, Building 11, at our Wiesloch-Walldorf plant. Admission to the event is via the main entrance, V&K Building 42, where parking places will also be provided for you. Please follow the on-site signs.

Heidelberger Druckmaschinen AG
Gutenbergring
69168 Wiesloch
Germany
Phone +49 6222 82-00
Fax +49 6222 82-999
heidelberg.com

Register now by getting in touch with your Heidelberg contact and discover how you can make Zero Defect Packaging a reality for your print shop!



PACE automates the cutting process

Quite often, people deem the cutting process to be a necessary evil. This is why when making their investment decisions they do not put much emphasis on this factor. But it's exactly here that an enormous optimization potential lies dormant. When a printing house automates its cutting process this will either increase its efficiency or save personnel while keeping the output at the same level. POLAR not only offers a comprehensive analysis to make such potential visible, but also offers attractive solutions for exploiting them.

With its PACE Cutting System, POLAR provides a benchmark in cutting efficiency. An automated cutting system of this kind is able to process up to 45,000 sheets in 60 minutes. This means that a single PACE system easily cuts the material produced by two Speedmaster XL 106 printing presses. The additional costs for this automation pay off after only two to three years. Figures show that it may be entirely worthwhile to take a closer look at the cutting process.

POLAR Automation for Cutting Efficiency

PACE is synonymous with automation of the cutting process and an acronym for “POLAR Automation for Cutting Efficiency”. The Autoturn turning gripper and the Autotrim high-speed cutter are the key components of our PACE Cutting System. At least five automatic cuts can be performed this way. Meanwhile, the operator has time to prepare the next cutting ream, laying the foundation for the high quality of the final product. Consequently, the operator works much more efficiently while at the same time the working load is enormously reduced. A real win-win story!

The POLAR PACE CuttingSystem perfectly complements the printing presses that run without interruption in accordance with the principle of “Push2Stop”. PACE forms a part of the Smart Print Shop and is integrated in the printing house’s digital workflow. The key to minimizing set-up times is the well-established and proven Compucut® software. This makes the operation of the Cutting System child’s play while ensuring the highest flexibility. Automation safeguards a consistent cutting quality - 24 hours a day.

Further automation options

For more than 15 years now POLAR automation solutions have been very successful. While PACE focuses on automating the cutting process, POLAR also offers various solutions for preparing the material, such as EasyLoad and Autojog. Our EasyLoad loading aid is the perfect alternative to both, manual and automatic jogging. A gripper system supports the operator when the automatic jogger needs to be loaded and still allows him/her to check the quality of the cutting ream. Autojog, on the other hand, automates the complete jogging process, from separating the untrimmed stack into partial reams and jogging right through to the completely cut ream.



POLAR PACE CuttingSystem 200

