HEIDELBERG

Peak performance
in folding carton printing.
Speedmaster XL 106.

Better in all dimensions.
More than just a machine.

The Speedmaster® XL 106 brings autonomous printing to folding carton production. Artificial intelligence (AI) and new assistance systems increase the efficiency of both man and machine.

Four short seconds. That's how quickly decisions are made at the point of sale. The packaging makes all the difference. Whether food, pharmaceuticals or luxury goods: Folding cartons reflect the value of the product, protect it and create brand recognition – and are as versatile as their contents.

It is precisely this versatility that characterizes the new Speedmaster XL 106 of the Peak Performance generation. Whether you are looking for maximum efficiency with 21,000 sheets per hour or customized configurations with up to 23 units for exceptional finishing effects – anything is possible.

Respond flexibly to your customers' requirements. The Speedmaster XL 106 significantly reduces the costs per sheet – through innovative advances in speed, availability and print quality. The modern, low-emission working environment with intuitive operation of all HEIDELBERG® touchpoints gives you an advantage in the competition for skilled employees.

Take advantage of the opportunities offered by digitalization: The Speedmaster XL 106 receives job parameters directly from prepress and the MIS (management information system) via open interfaces – and thus avoids redundant data acquisition. So far, only 15 percent of packaging printers are benefiting from this option.

When you choose HEIDELBERG, you get more than just a press. You gain access to an ecosystem that offers you real added value – with service, consumables, digital services, software, cloud-based solutions, training and consulting, inventory management and logistics. We accompany you into the future.

heidelberg.com

Always one step ahead.
Speedmaster XL 106.

The packaging market is changing – and with it so is our Speedmaster XL 106. You get more than just a machine: A solution precisely tailored to your requirements.

The Speedmaster XL 106 allows you to individually combine printing units with several coating units to efficiently produce even complex folding cartons in just one pass. One of the gems in this setup is the highly automated Push to Stop coating unit. It reduces the entire makeready process by up to 30 percent. Once prepared during ongoing production, the makeready process in the coating unit runs completely autonomously.
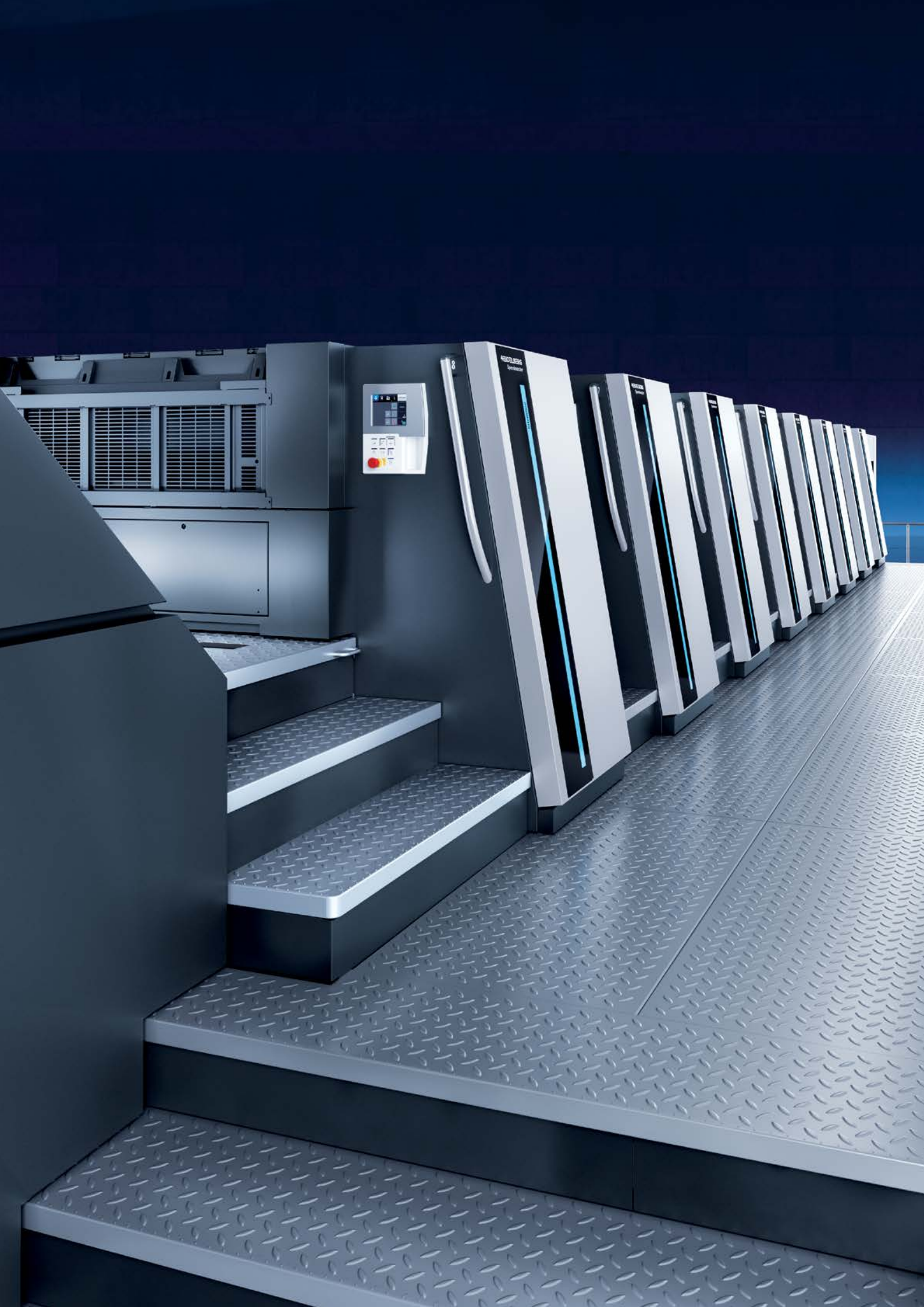
Folding cartons for exclusive products that impress with creative designs and unusual metallic and coating effects are finished using the Speedmaster XL 106 in combination with FoilStar®. An unbeatable advantage of the cold transfer module: it only transfers metallic pigments which, unlike plastic-based finishes, are easy to recycle.

The Speedmaster XL 106 prints high volumes of folding cartons for everyday products at an impressive 21,000 sheets per hour – highly efficiently in non-stop operation, supported by fully automated pile logistics. With the Uptime XL concept – including completely maintenance-free high-volume cam rollers – maintenance time becomes valuable production time.

Where a certain quality is to be achieved efficiently on challenging jobs, technical printing expertise is required. The AI-based Hycolor Assistant makes things easier through optimized presetting of the Hycolor XL inking/damping unit: It saves up to 25 percent makeready waste even before the first sheet goes into the machine.

→ **heidelberg.com/en/xl106**

Innovative down to the last detail.
Ease of use included.

One of the highlights of the new Speedmaster XL 106 in folding carton printing is the Push to Stop coating unit. Developed for versatility and fast switching between applications – with outstanding quality.

Improved ease of use, higher coating quality and significantly shorter set-up times are just some of the benefits of the new coating unit. Even in standard operation, roller changes are simplified because a new anilox roller can be prepared during ongoing print production. The Anilox ID automatic anilox roller recognition prevents errors.

New anilox rollers with a larger diameter ensure stable coating quality, even at the highest printing speeds. Additional automations, such as the Autoloader anilox roller changer, the AutoPlate Coating Pro coating plate changer and the Coating Center coating change system, enable fully automatic set-up during job changeover – seamlessly integrated into Intellistart® 3.

The new Speedmaster XL 106 coating unit reduces set-up times by up to 30 percent. Parallel, fully automated processes enable autonomous coating changes in folding carton printing for the first time. It is this interplay of thoroughly innovative technologies that leads to higher throughput, lower costs, reduced waste and consistently high quality.

Work with ease.
Intuitive for the best results.

Intelligent automation reduces errors. But production processes do not work without operators. That's why we make sure that working on the press is intuitive and effortless.

Simple, fast and reliable: HEIDELBERG user experience.
Printing has never been so easy: Assistance systems support and guide the operator through all the processes. The standardized and ergonomic user guidance makes even complex processes simple and enables maximum productivity in the long term.

Functions for simple and accelerated production:

Central control
Prinect Press Center XL 4 with Wallscreen XL
The modern 24-inch multi-touchscreen with intuitive controls allows you to monitor important presets and current production data. The Prinect Press Center® XL 4 also connects the Speedmaster XL 106 with the Prinect® Workflow. The open interfaces allow the easy integration and use of third-party software at any time.

→ heidelberg.com/en/
prinect-press-center-xl

Efficiency at a glance
Press Center Mobile and production screen
The flexible Press Center Mobile web application informs you in real time about the status of connected printing machines. It visualizes important production and process data as a basis for optimized processes – either on the mobile device or on the Speedmaster XL 106 production screen.

Greater productivity thanks to digitalization
Intelligent assistance systems
Self-learning software systems optimize set-up and production processes. This increases efficiency and quality – quickly and autonomously.

Clear and transparent in real time
Intellistart 3
The set-up operations required for pending jobs are automatically calculated, processed and displayed. Intellirun provides real-time information on production status and navigates the operator through the production process on the Wallscreen XL. The Intelliline LED system provides an up-to-date overview of the machine status through color-controlled LED elements on the units.

All-arounder meets quality
Hycolor Assistant
Based on the preview images of the print job, the AI-based assistance system automatically makes the optimum settings in the Hycolor XL inking/dampening unit. Waste is reduced by up to 25 percent on challenging jobs. The operator's workload is reduced.

CLANÉT
ALGUES

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SERUM

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ALGUES

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MANUFACTURE R RABERNOIR

TRADITIONELLE HANDARBEIT

Exotic C

Feine Erdbeermousse umhüllt von

PEROZOL Zolpidem

Hypnotikum zur Kurzzeitbehandlung von Schlafstörungen

30 teilbare Filmtabletten 10 mg

LUC MARAIS

L'ARIA

EAU DE PARFUM
VAPORISATEUR NATURAL SPRAY
100 ML ℮ 3.4 FL.OZ

MAMMA UNA
TRADIZIONALE

SPAGHETTI
POMODORO

...ericht mit feiner Tomatensauce,
...on Kräutern und Parmesankäse

...rtionen   ℮ 500 g

Impressively simple.
How packaging printing works.

Whether cost reduction, digitalization, skilled workers or sustainability: The Speedmaster XL 106 is the answer to the main challenges in folding carton printing.

One step ahead of the competition
Lowest cost per sheet
HEIDELBERG technology and service enable high productivity and economic efficiency. Machine availability increases.
- 21,000 sheets/h – highest speed
- Simultaneous autonomous set-up processes
- Availability – robust and low-maintenance
- Service – support 24/7
- Print quality – efficient and reproducible

What brands demand
Sustainable packaging production
Legal regulations and the requirements of branded goods manufacturers on packaging production are increasing. Especially when it comes to sustainability.
- Energy efficiency: optimized dryer technology
- Functions for waste reduction
- Optimal use of consumables
- Transparent energy consumption per job

Attractive working conditions
Find and retain staff
Operators are given optimal support at a modern, digital workstation. Routine work is eliminated so skilled operators can concentrate on value-adding activities.
- Operator guidance through HEIDELBERG UX
- Intelligent assistants
- AI-supported automation
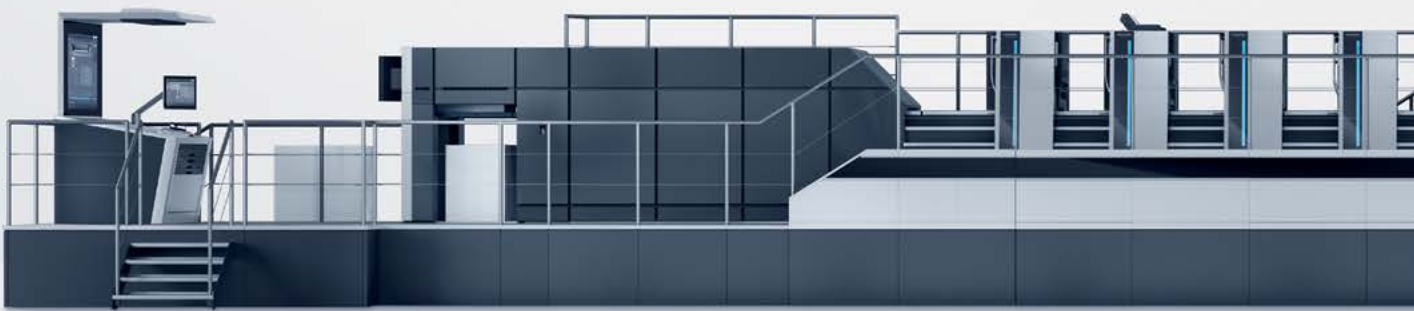- Safe, clean and with lower emissions

Customized for you
Partnership with a future
Whether you are a traditional family business or an international group – HEIDELBERG can provide you with customized solutions tailored to your needs.
- Customized machines for all applications
- Logistics connection and robotic systems
- Pay-per-use / Subscription
- end-to-end solutions for packaging printing
- Workflow and digital platforms

SPEEDMASTE

New bearer ring maintenance system and **high-volume cam rollers** reduce manual maintenance work and increase availability for reliable production.

UV dryer systems DryStar® UV, DryStar Combination UV with IR and hot air or DryStar LED Pro create extraordinary effects.

DryStar Combination Eco saves up to 30 percent drying energy thanks to optimized input, integrated heat recovery and insulation. It emits less heat into the workplace.
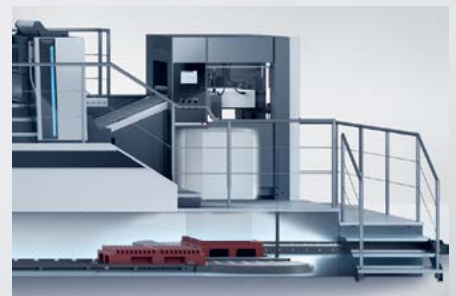
R XL 106

The automated **Push to Stop coating unit** with Autoloader, Coating Center, and AutoPlate Coating Pro enables unmanned job changeovers.

The **Hycolor XL** inking/dampening unit with Hycolor Assistant ensures even higher quality and further waste savings, especially on challenging jobs.

Logistics systems ensure uninterrupted non-stop production and control the automated loading of the feeder and the removal of printed pallets at the delivery.
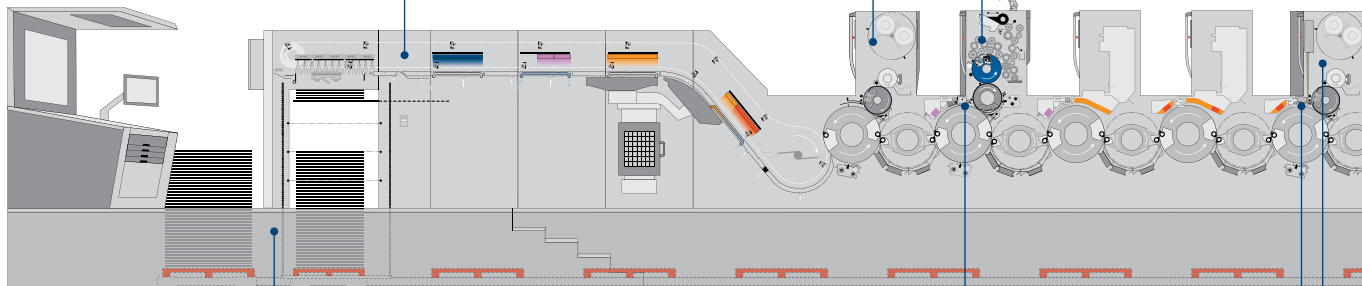
8

PowderStar XL

The **PowderStar® XL**, supported by the **Powder Assistant**, enables precise zonal powder application and reduces powder consumption by up to 15 percent.

The **CleanStar®** sustainably reduces soiling of the machine and the environment by extracting excess powder with the help of the powder shutter.

6

Separate circuits

Independent circuits in the inking and coating units make it easy to switch quickly between **UV and conventional printing**. This provides flexibility in the selection of printing processes.

9

Elevated machine

Elevation makes it possible to use higher piles. The operator's workload at the pile turner is reduced. The storage space required is reduced.

7

Prinect Inpress Control 3

The **spectral measurement system** finds the print control strip, the paper white and the register marks fully automatically and starts ink control without operator intervention.

→ **heidelberg.com/en/ prinect-inpress-control**

Prinect Inspection Control 4

The precise **inline sheet inspection system** checks each sheet for hickeys, material defects, ink splashes, scumming, etc., before any follow-up costs are incurred. It works with two high-resolution colour cameras and maintenance-free LED lighting.

→ **heidelberg.com/en/ prinect-inspection-control**

4 **Hycolor Pro dampening unit**

The dampening unit with **Hycolor Pro** offers transparency for dampening unit adjustment and, thanks to motorized remote adjustment, allows quick reactions during ongoing production.

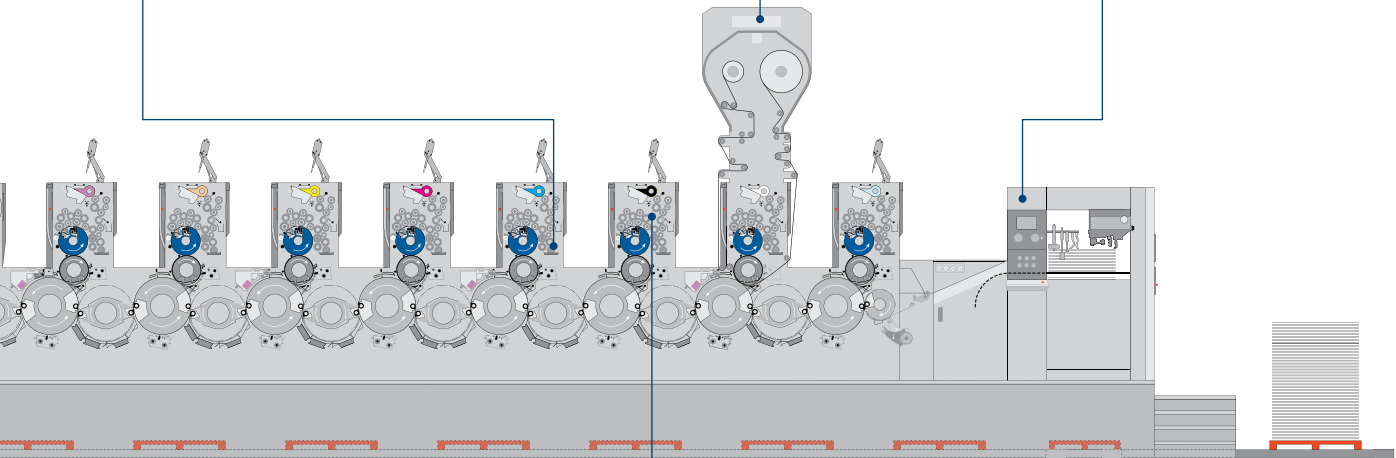→ heidelberg.com/en/ hycolor-pro/experttalk

2 **FoilStar**

The **cold transfer module** for metallic and sustainable finishing effects.

Cyclical multi-web operation with up to four cold-foil rolls is possible, which significantly reduces material usage.

1 **Preset Plus feeder**

High-performance feeder with fully automatic presettings for all relevant format and air settings, for extremely short makeready times and steady sheet travel.

5 **Push to Stop coating unit**

The new **coating unit** ensures high quality through simple operation and short set-up times. Anilox rollers with a larger diameter and less weight are designed for maximum printing speeds.

Coating, anilox roller and coating plate changes can be performed with various levels of automation, including semi-/fully automatic coating plate changes with **AutoPlate Coating/Pro**, fully automatic anilox roller changes with **Autoloader** and automatic coating changes in the **Coating Center**.

In **Push to Stop** mode, the coating unit enables parallel changeovers without manual intervention at the same time as other set-up processes and automatic cleaning functions.

3 **New Hycolor XL inking/ dampening unit**

The **Hycolor XL inking/dampening unit** with intelligent ink distribution and improved Vario system meets the highest demands in terms of quality and waste reduction when processing challenging jobs. The first good sheet is achieved quickly, and output and efficiency are increased.

Combined with the fully automatic AutoPlate Pro plate changer, **Hycolor XL with Multidrive** enables parallel set-up processes. The blanket cylinders, impression cylinders and inking units are washed and the printing plates changed in about 2.5 minutes.

Speedmaster XL 106
The printing machine shown is a sample configuration. Some of the equipment features presented are optional. Compare the Speedmaster XL 106 with other machines in this segment.
→ heidelberg.com/xl106/machine-comparison

You can find further information and technical details for your Speedmaster XL 106 here:
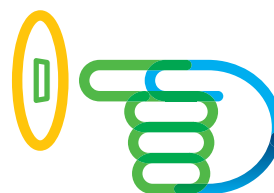→ heidelberg.com/en/xl106

AUTOMATION

The art of efficiency.
With the focus on automation.

The Speedmaster XL 106 gives you a decisive competitive edge in packaging printing. Highly automated, it reduces process- and operator-related sources of error. They produce more efficiently and more cost-effectively in consistently high quality.

We call this "Push to Stop".
Processes are no longer actively started, they are just stopped when necessary. The press operates autonomously, manual interventions are reduced to a minimum, set-up and printing processes run automatically without interruption.

Functions for time- and cost-saving production:

Parallelism saves valuable time
Hycolor XL inking/damping unit with Multidrive
Hycolor XL impresses with its high print quality and low waste, even on challenging jobs. The first good sheet is achieved faster. Multidrive shortens your set-up times, as the inking unit can be washed in parallel with other processes.

Automatically greater productivity
AutoPlate Pro
The fully automatic plate changing system changes printing plates without need for operator intervention, on a staggered and time-optimized basis. Efficiency and productivity increase. The operator has time for parallel work.

Produce with consistent results
Logistics systems
The combination of pile logistics and automatic non-stop changeovers guarantees maximum output and stable print quality while reducing the workload of your operators. The modular system is flexible and customizable.

Fully automatic set-up without stopping
Prinect Inpress Control® 3
The spectral measurement system recognizes print control strips, paper white and register marks and starts ink control automatically. The color deviation ΔE is displayed and adjusted on the fly.

→ **heidelberg.com/en/
prinect-inpress-control**

Automatic error detection
Prinect Inspection Control 4
The inline sheet inspection system automatically detects printing errors and material defects with a high standard of inspection. It can be integrated into the waste paper management system and can be supplemented with the InsertStar® tape inserter and the waste paper ejection system.

Everything you need in one place.
The HEIDELBERG ecosystem.

Remote Services

Enjoy the benefits of fast and remote problem solving, maintenance and analysis of machine performance.
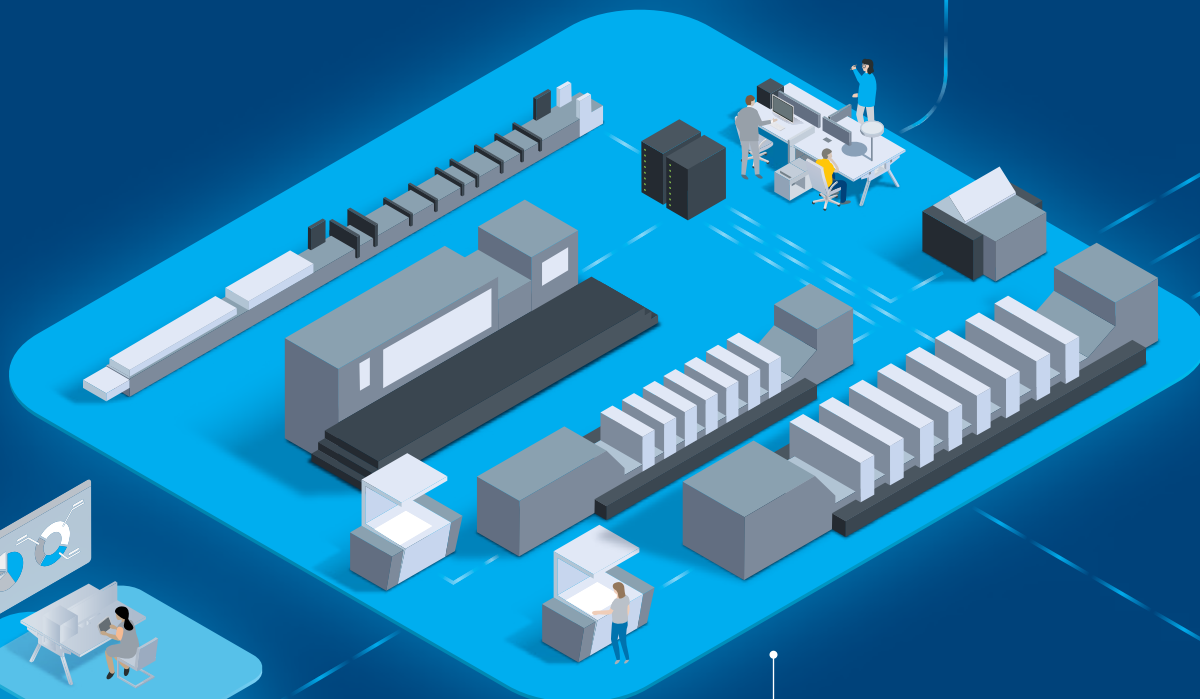
On-site services

From technical service to parts delivery: To ensure stability in your production, we provide 24/7 support worldwide.

Prinect Business

Automate your commercial processes and see where you make or lose money.

Prinect Production

Make your print processes perfectly seamless with volume-based pricing.

End-to-end production workflow

Increase productivity with speed, quality, digital integration, and reliability.

Every print shop is different, and every customer has unique, comprehensive needs. That is why we have developed our offerings to serve these needs all across the spectrum. What makes us unique is that you can find everything here that makes your print shop smarter, faster, and better. Make HEIDELBERG your one-stop shop for everything that contributes to your success.

The digital customer portal

Reach cloud-based production, shopping, support, reporting, and administration services from anywhere, at anytime.

Sustainable production

Go green and reduce waste and energy consumption with our sustainable solutions.

CO_2

The right investment

HEIDELBERG machines have a high resale value. If you invest in it today, it will pay off in the future.

Saphira® Consumables

Use proven and tested consumables optimized for your HEIDELBERG equipment, including an eco-friendly product line.

Print Media Center Network

Experience our equipment running at three locations: Wiesloch-Walldorf (GER), Atlanta (USA), Shanghai (CHN).

Leader in the printing process.
Clear advantages for you.

Sustainably effective

40,000

DryStar Combination Eco:
up to **40,000 kWh less energy consumption** per year

25 %

25% less waste thanks to Hycolor XL

30–80 %

FoilStar with indexing: **30% to 80% film savings** for printing forms with low area coverage

Automated and user-friendly

21,000 sheets per hour:
16% higher maximum speed

Autoloader: fully automatic anilox roller change **in under 1 minute**, parallel to other processes

Uptime XL: Save **70 h/a on maintenance** with the new bearer ring maintenance system and high-volume cam rollers
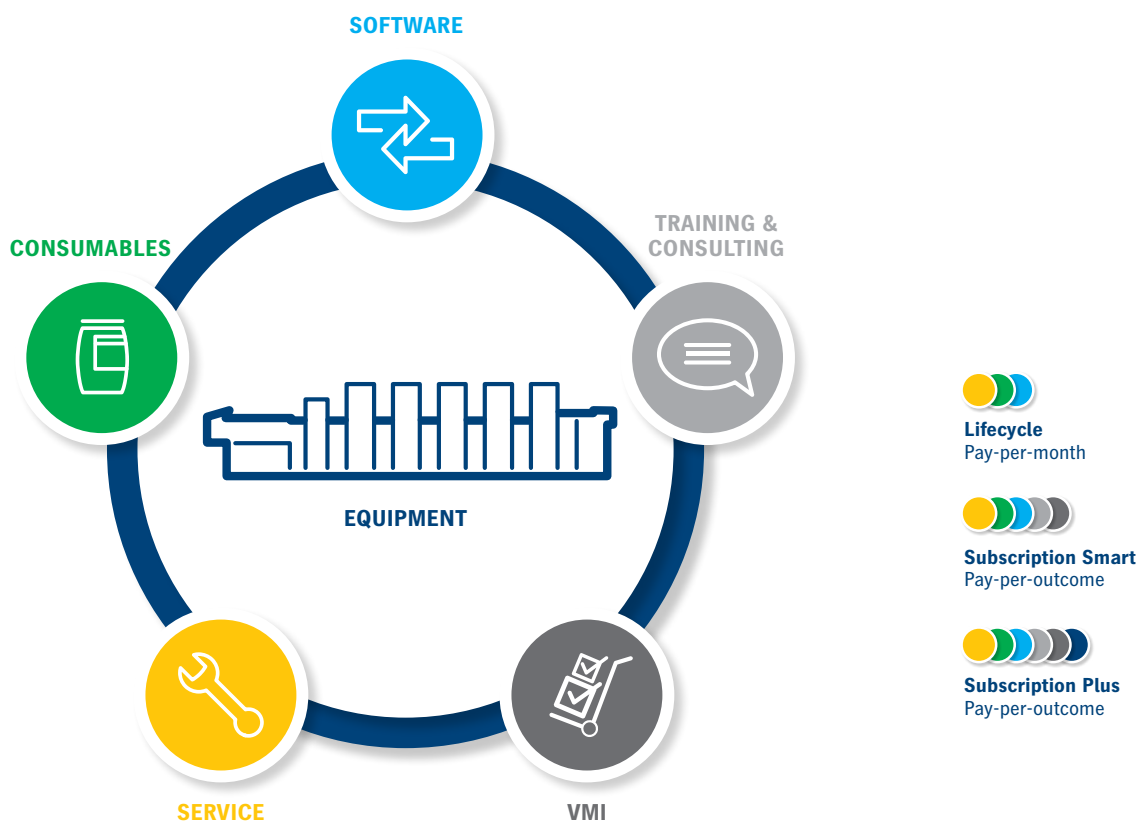
21,000
1 min
70 h/a

HEIDELBERG Contracts.
Contract packages as individual as your requirements.

You benefit from a combination of best-in-class products from HEIDELBERG. Our Lifecycle and Subscription packages help you keep your machines running at their best.

SOFTWARE

TRAINING & CONSULTING

CONSUMABLES

EQUIPMENT

SERVICE

VMI

Lifecycle
Pay-per-month

Subscription Smart
Pay-per-outcome

Subscription Plus
Pay-per-outcome

Our contracts are scalable to your needs: We put together a lifecycle contract package for you from at least two of the three components – service, consumables and software. This offers you everything you need for reliable and stable printing production. The services are billed on a monthly basis. Subscription also includes training and consulting, Vendor Managend Inventory (VMI), and optional equipment. VMI automates the management of consumables. Thanks to the strong partnership with HEIDELBERG, you can enjoy the benefits of a comprehensive and optimized print production system. With Subscription, payment is made per printed sheet.

The following applies to both packages: You reduce your process costs and gain more time for your customers.

Have we piqued your interest? Let us work together to create your customizedz solution package that best fits your needs.
heidelberg.com/contracts

How can we help you?
Get in touch with us.

We hope that this brochure will inspire you. There is more we can tell you about how we could make your printing business more efficient and profitable.

If you are interested in the **Speedmaster XL 106** or would like to learn more about what we can offer, feel free to **contact us.** We're only ever an e-mail or phone call away.

Reach us by email
➔ contact@heidelberg.com

Use the contact form
➔ heidelberg.com/info

Please find the phone numbers of your local sales organization here:
➔ heidelberg.com/contact

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For details on the emissions of the Speedmaster XL 106,
please visit us at heidelberg.com/emissiondetails

Liability for contents
The contents of this brochure have been prepared with great
care. No warranty or liability is accepted for the correctness,
completeness, or accuracy of the information. There is no
guarantee or warranty that the customer will be able to achieve
the values and numbers (e. g. relating to the function and
performance of the machine and the software) specified in the
brochure. The information provided is based on ideal conditions
and proper use of the machine and the software. Achieving
these values and numbers depends on a variety of factors
and circumstances that are outside the control of HEIDELBERG
(e. g. machine settings, technical conditions, ambient conditions,
raw materials and supplies used, consumables used, standard
of care and maintenance of the machine, expertise of the
operator, meeting the respective system requirements, etc.).