



# The Peak Performance class. **Speedmaster XL 145 and XL 162.**



# A partnership that pays off. **Heidelberger Druckmaschinen.**

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The key to your success lies in the coordinated interaction of people, processes, materials, and machines. We are a reliable and competent partner for all your printing needs. Our user-friendly systems, customized products, and innovative services deliver maximum production quality, make controlling complex processes easier, and help you to avoid errors – all along your production chain. The result: Efficiency at the touch of a button. We call it Simply Smart. The advantage for you: simpler and more productive processes thanks to an intelligent, comprehensive, and integrated portfolio optimally tailored to your needs.

➔ [heidelberg.com/company](https://heidelberg.com/company)



# Our areas

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## E

### Equipment

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Rely on future-proof printing and further processing by combining digital and offset printing. Our portfolio for printing machines ranges from cutting-edge digital technologies and offset printing machines attractively equipped as standard to individually configured special machines for maximum productivity and every possible print application. From prepress to postpress – we enable the entire printing process for commercial and packaging printing. Our machines are networked through the Prinect workflow and can thus exchange production data: for the sake of optimum processes and transparency. Make uncompromising quality your standard.

→ [heidelberg.com/en/equipment](https://heidelberg.com/en/equipment)

## S

### Service

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Our comprehensive range of services gives you more time for the essentials. With our Technical Services we offer you fast, efficient, and reliable access to our expertise and all the original parts – our service technicians are always close-by. With our Performance Services we work with you to optimize your productivity in all areas of production. Our industry-specific solutions also make us a competent partner in financial matters.

→ [heidelberg.com/en/service](https://heidelberg.com/en/service)

## C

### Consumables

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You can rely on our know-how and coordinated materials for impressive results. We offer you various complete packages of consumables, allowing you to concentrate fully and entirely on your core competencies. With our online shop, we offer easy access unparalleled in the industry to all the products you need.

→ [heidelberg.com/en/consumables](https://heidelberg.com/en/consumables)

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**HEIDELBERG**  
*Speedmaster*

# No compromises. **Speedmaster XL 145 and XL 162.**

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When it comes to achieving maximum success, there can be no compromises. Take advantage of all the possibilities offered by large-format commercial and packaging printing with our Speedmaster® XL 145 and XL 162 – for top efficiency and maximum productivity combined with total ease of operation.

Get the jump on industrial printing production of tomorrow with Push to Stop: for the first time in the history of offset printing, you can now change jobs fully automated – from the last to the first good sheet, right up to the start of production. The patented process- and job-oriented assistance system Intellistart® 2 will revolutionize how you change jobs, with efficient job preparation and automatic generation of time-optimized job change programs.

The sturdy design and innovative, state-of-the-art technology of the two presses ensure top performance and quality around the clock. With Packaging Speed Performance you can achieve up to 18,000 sheets per hour in packaging printing, for example. The unique double gripper technology in the delivery ensures outstanding results in commercial printing. The Speedmaster XL 145 and XL 162 are the success stories in large format printing.

# The high-performance control station.

## Prinect Press Center XL 2.

The Prinect Press Center XL 2 sets new standards in operating philosophy. Take the crucial step towards fully automated job changing with Push to Stop and navigate through complex makeready processes with Intellistart 2.

### Productivity made easy

User-friendly operation is about more than a pleasant working experience. It is also an important prerequisite for maximum efficiency – print job by print job. The Prinect Press Center® XL 2 offers you this user-friendly operation thanks to outstanding ergonomics and intuitive operation. At the same time, the new generation of control stations systematically harnesses all available potential to minimize the time spent on each print job. You operate unique software applications and integrated assistance systems via the intuitive 19-inch multi-touchscreen. The Prinect Press Center XL 2 is therefore designed for the highest productivity requirements.

### Wallscreen XL – maximum transparency

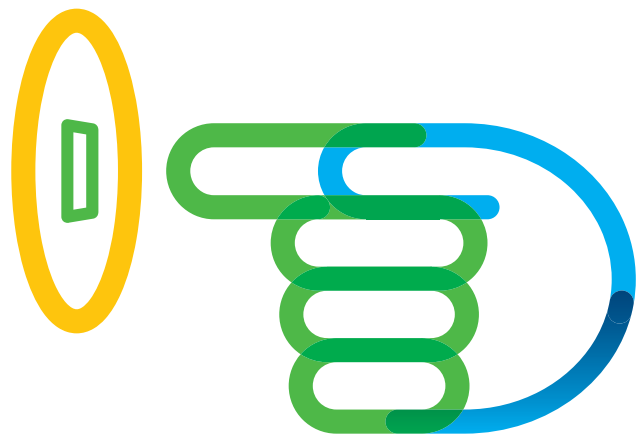
Operation is made even more direct with the new operating philosophy with swipe gesture control, the reorganized interface with four main screens, and a favorites bar. You have control over all functions and operational sequences at all times.

The patented assistance system Intellistart 2 automatically generates all the steps required for intelligent job changes and provides maximum transparency across all active and queued processes. The time-optimized sequence is simulated live by Intelliguide®.

The Wallscreen XL also sets standards with the new my Wallscreen function. It offers you the freedom to query and compile information about your press on a user-specific basis. For example, several views can be custom displayed in myScreen. This means that you have a clear view of all processes.

### Push to Stop: uninterrupted productivity

Intellistart 2 supports the paradigm shift towards Push to Stop in industrial print production. For the first time, multiple follow-up orders can be prepared and released while production is still underway. In addition, processes are automatically started when changing jobs – and then run on their own. As part of this process, the color measurement system Prinect Inpress Control 2 with the Quality Assist function automatically switches the machine to “production run” once the defined quality requirements are met. This fully automated job changing – from the last to the first good sheet until production starts – is unique in offset printing.



### Our innovations for your success.

Discover the opportunities offered by industrial printing production of tomorrow. Push to Stop enables you to change orders fully automated for the first time in the history of offset printing – from the last to the first good sheet, right up until production starts.



### Perfect data and color management with Princt

The Princt Press Center XL 2 integrates your printing press into the Princt® print shop workflow. Current job data is automatically uploaded. At the same time, processes can be initiated from the control station. You benefit from excellent data management, current production data, and informative reports.

Princt also offers you various color measurement systems for optimal, reproducible color stability. Two further spectrophotometric color measurement systems are available as an alternative to the Princt Inpress Control 2 inline color measurement system for maximum productivity: the high-performance Princt Axis Control® and the Princt Inspection Control 2 measuring the entire print image.

➔ You can find more information on Princt Press Center XL 2 here: [heidelberg.com/en/princt-press-center-xl2](https://heidelberg.com/en/princt-press-center-xl2)



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Web-based support –  
fast, secure, efficient:

**Heidelberg Remote Services.**

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#### Wide range of remote services:

- From troubleshooting and benchmarking through to Predictive Monitoring
  - 24/7 access to expert know-how at the push of a button
  - For increased machine availability and enhanced productivity
- 

➔ [heidelberg.com/en/remote-services](https://heidelberg.com/en/remote-services)

# Leader in the printing process.

## 16 clear benefits\*.

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### Makeready

Protective liner instead of bare metal – cleaning the ink fountain takes just **1 minute instead of 5–10 minutes**.

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**<9 minutes** with 2 ink changes from the last sheet in one run to the first good sheet in the next.

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No more flying blind – with Prinect Inpress Control 2, the first measuring results are delivered after **less than 30 sheets** and the run is ready to start in **under 1 minute**.

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# 3 mins

makeready time for job changes in web-to-print.

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Up to **88 makeready processes** in

# 8 hours

with AutoPlate XL.

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Plate correction at the trailing edge

# in just 3 secs

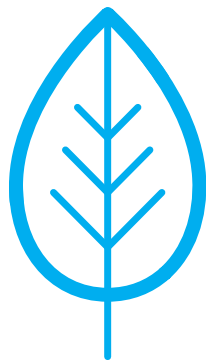


from the Prinect Press Center XL 2 – on the fly.

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### Ecology

Over 200 washup processes per washup cloth.



Minimization of makeready waste to

# 60 sheets

with Prinect Inpress Control 2.

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# Outstanding characteristics in large format.

## The facts at a glance.



reddot award 2016  
winner



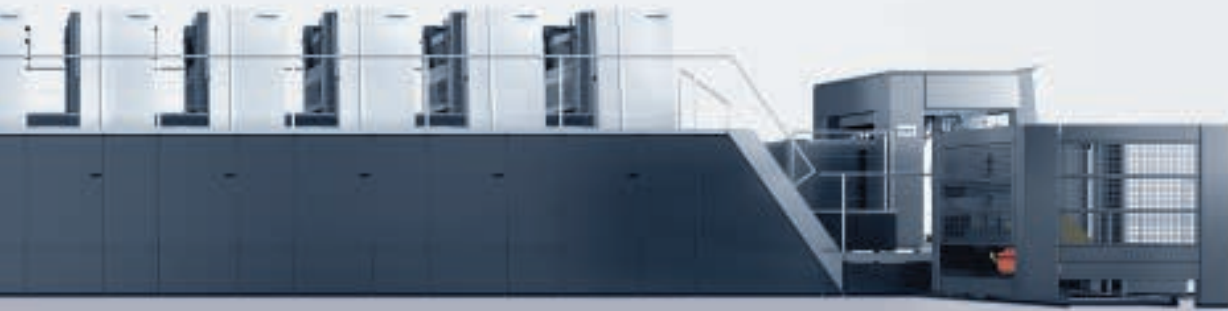
### Equipment:

- High-performance control station Prinect Press Center XL 2 with innovative, process-oriented operator guidance system Intellistart 2.
- Intellistart 2, the patented process- and job-oriented assistance system for efficient job preparation and automatic generation of time-optimized job changes. The Intelliguide view clearly displays all automatic processes running during job changes.
- Remote fan-out control (RFOC) for quick and easy adjustment at the trailing sheet edge from the Prinect Press Center XL 2, fast accomplishment of a very precise register. Custom circumferential and lateral control in case of uneven paper distortion.
- AutoPlate XL for fully automatic, simultaneous plate changes in 1½ minutes without prior trimming of the printing plates.
- Programmable, simultaneously operating washup devices for inking and dampening unit as well as blanket and impression cylinders.

### Equipment for packaging printers:

- Prinect Inspection Control 2 fully checks each sheet for hickeys, material defects, ink splashes, scumming, and so on using two high-resolution color cameras in the coating unit of the press to prevent follow-up costs. The optimized blast air-supported sheet guide ensures a high inspection quality right up to the trailing sheet edge. PDF verification permits automated background checking of the printed sheet using the plate imaging data.
- AutoPlate Coating ensures automated coating plate changes without the need for tools and reduces your makeready times
- PSP = Packaging Speed Performance: the performance profiles of the presses are geared towards the customer's job structure. The presses are available with different production speeds of up to 18,000 sheets per hour as appropriate to the customer's requirements.
- The inking unit can be washed in parallel to the fully automatic plate change.

Two presses that redefine top performance in large format. Our numerous innovative developments are raising the bar in this format class. These outstanding presses offer the highest level of automation that ensures the greatest ease of operation, faster makeready times, and constant processes. Smooth interaction of all components for superlative quality and economy – for your success. Speedmaster XL 145 and XL 162: peak performance in large format.



#### **Equipment for commercial printers:**

- Unique double gripper technology in the delivery: simultaneous gripping of the sheet at the leading and trailing edges for completely contact-free sheet guidance results in lower paper costs and outstanding stack quality without the need for sheet brakes and print-free corridors.
- Fully automatic triple-drum perfecting with innovative components for reliable and precise sheet reversal.
- DryStar LE UV with efficient URS reflector technology (UV reflection system) delivers the best curing results.
- The Speedmaster XL 145 and XL 162 can be prepared for the installation of LED dryer systems.

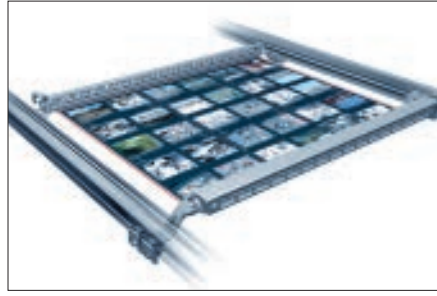
#### **Highlights:**

- Biggest cylinder diameter on the market and exceptional inking and dampening unit for the highest quality standards.
- The presses achieve maximum running smoothness thanks to printing units weighing 21 metric tons each.
- Fastest ink changes and ink fountain cleaning in the world.
- Spectrophotometric inline measuring system Prinect Inpress Control 2 automatically measures and controls color and register on the fly and at all speeds.
- Most successful perfecting technology in large format, especially for 4/4-color printing for publishing houses and web-to-print customers.

➔ **You can find more about technical data and facts here:**  
[heidelberg.com/xl145-xl162/technical-data](https://www.heidelberg.com/xl145-xl162/technical-data)



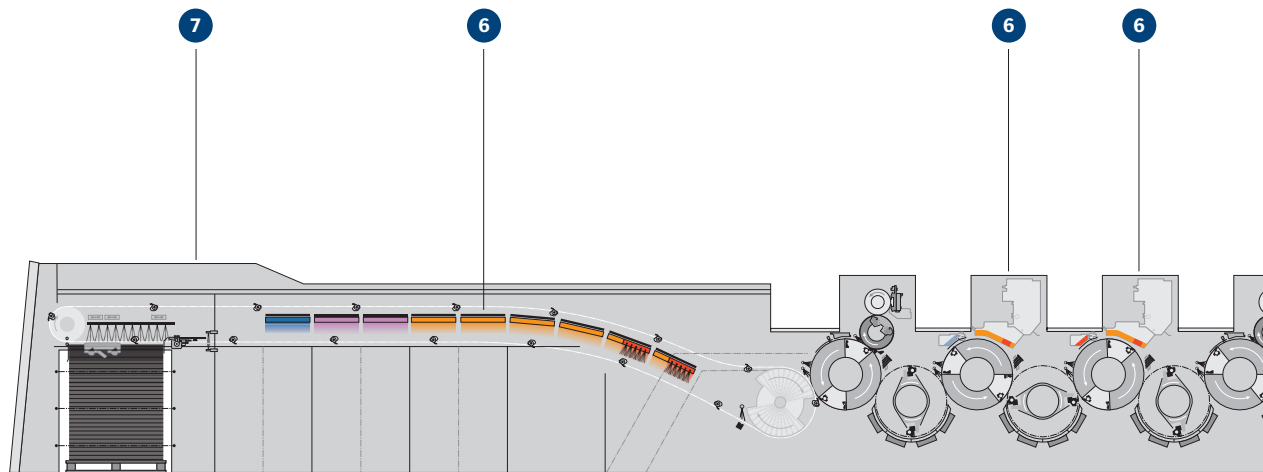
Dynamic sheet brakes for precision pile formation at production speeds of up to 18,000 sheets per hour.



Unique double gripper technology in the delivery: double-sided guidance of the sheet all the way to the stacker module.



Fully automatic clamping and gripping of the coating plate with AutoPlate Coating.



Speedmaster XL 145-6+LYYL. The press shown is a sample configuration. Some of the equipment features mentioned are optional.

### 1 Feeder

- Fully automatic non-stop device, including in combination with feeder logistics system for pile changes without any interruption of production.

### 2 Plate changer

- AutoPlate XL, the fully automatic, synchronized plate changing system, dramatically shortens makeready times.
- Automatic coating plate changing with AutoPlate Coating reduces makeready times.

### 3 Printing unit

- Individual drive technology for simultaneous washing of the inking and dampening unit as well as blanket and impression cylinders together with disengagement of the inking unit increases press availability.
- On-the-fly remote fan-out control in circumferential and lateral directions for optimal registration, even in case of paper distortion.
- Programmable washup devices ensure optimal washup results.

- Washup cloth changes during the production run increases press availability.

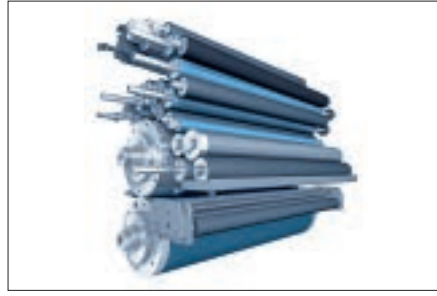
- Prinect Inpress Control 2 automatically measures and controls the color spectrophotometrically and the register during setup and production – directly in the press and at any speed.

### 4 Inking unit and dampening system

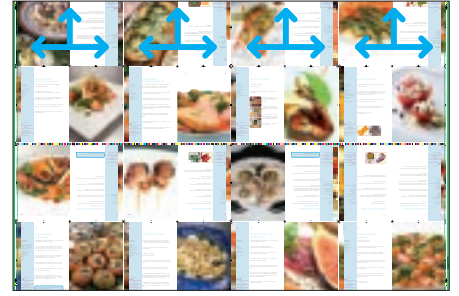
- Maintenance-free ink fountains, fully foil-lined, for fast ink changes and wear-free, self-calibrating ink zones as well as automatic adaptation of the ink profiles.
- Reactive and stable inking unit with high storage capacity and adjustment-free ink transfer rollers for outstanding print quality.
- Inking unit temperature control with two cooling circuits for ink distributors and fountain rollers ensures a constant temperature in the inking unit and uniform inking across the entire run.



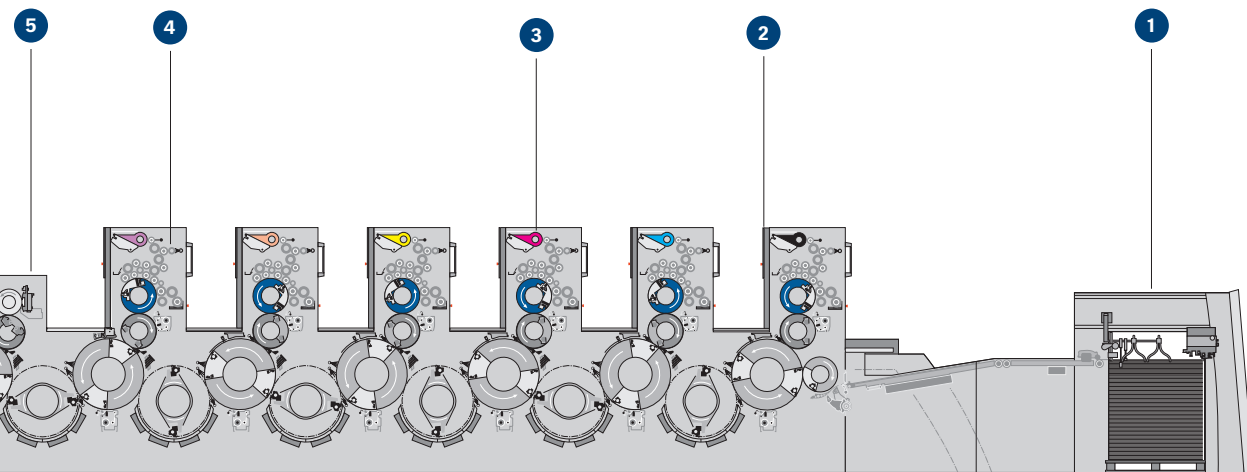
Extremely flat sheet travel with AirTransfer system and profile-controlled air settings.



With its generous geometry, the inking and dampening unit achieves high contrast values, perfect dot definition, and easy printout of solid areas.



Remote fan-out register adjustment in circumferential and lateral directions.



### 5 Coating unit

- Chamber blade for the best possible results in conventional coating applications, doctor chamber blade for the best gloss levels with UV applications.
- The combined clamping system or AutoPlate Coating permit fast coating blanket or coating plate changes.
- Pneumatic changing system for fast replacement of the screen roller.

### 6 Drying systems

- Dryer units between the coating units with infrared, hot-air, UV, and circulated-air modules for the best drying and curing results for inks and coatings.
- The various DryStar® drying systems (DryStar Coating/Combination/Combination UV/UV/LE UV) are optimally matched to the sheet travel and ensure the best drying and curing results as appropriate to the application.

### 7 Delivery

- The modular design of the delivery offers the longest drying section on the market for complete drying and curing of inks and coatings – for the best print results.
- Fully automatic non-stop delivery with roller technology as well as modular roller or plate conveyor system for targeted adaptation to local production conditions.

→ You can find more about the details and facts here: [heidelberg.com/en/xl145-xl162](https://heidelberg.com/en/xl145-xl162)

Find more about the economy and efficiency benefits here:

➔ [heidelberg.com/xl145-xl162/efficiency](https://heidelberg.com/xl145-xl162/efficiency)



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## Productivity

Select 30 jobs

**in less than 3 mins**

on the fly and then process them in a fully automated workflow.

## Availability

**Top print quality**, even with heavy use all day every day, thanks to the heaviest printing unit on the market at

**21 metric tons** per printing unit.

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Over

**300,000 sheets**  

per day possible.

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User friendliness

**100 %** transparency

with complex job changes thanks to the innovative, process-oriented operator guidance system Intellistart 2.

Printing speed in packaging printing of up to

**18,000 sheets** per hour possible.

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The longest delivery drying section on the market at 11.3 m for the best drying quality at maximum speed and no delays before postpress.

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## User friendliness

**2 clicks**

to select and release jobs for printing.

All roller settings for each printing unit checked in **5 minutes** and **20 minutes** per adjustment cycle saved with the Roller Check Assistant software.

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\* see reverse



# Machine and market.

## A true factor in packaging printing.

The Speedmaster XL 145 and XL 162 have the perfect format and technology for packaging printing. Whether premium or volume producers, Speedmaster presses always offer packaging printers the optimal solution. We are the worldwide leaders in packaging printing when it comes to our overall portfolio.

The two Speedmaster presses in large format are perfectly equipped for all the challenges encountered in packaging printing. Their extensive automation makes operation easier than ever for you. The shortened makeready times allow you to handle frequent job changes in the fastest possible time. The available configurations cover the entire range of finishing options as well as special application variants. The two presses are also the most productive in their class with up to 18,000 sheets per hour for highly industrialized packaging printing. This will quickly pay off for you, particularly with long runs.

### Logistics

The logistics system is the perfect choice for industrial folding carton printers for non-stop production. The advantages are clear. They benefit from stable production sequences with perfect piles and no interruptions for manual pile changes. Automatic non-stop pallet changing at maximum speed enables the press operator to do things independently of the change cycle of the piles.

The logistics components are:

- Automatic non-stop feeder with freely suspended rake for compensating imprecise pallet feeding and for smooth plate changes.
- Automatic non-stop delivery with roller technology.
- Automated material flow, including for several presses.
- Modular conveyor system with targeted adjustment to local conditions.
- Also available as a plate system for the delivery.
- Lowerable, easily accessible at ground level.

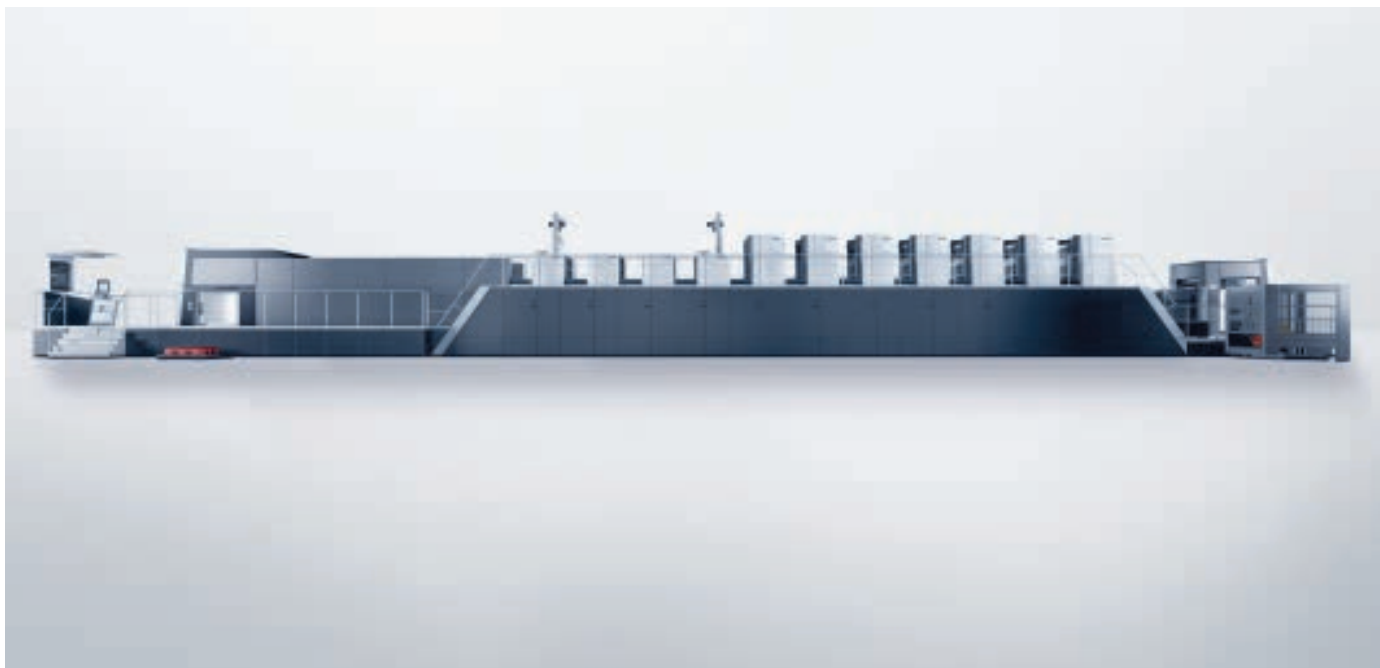
- Suitable for using commercially available system pallets.
- Pile turner with vibrator and ventilation system.

### Automation and simultaneous makeready processes

Makeready times are a critical factor when it comes to frequent job changes. In order to minimize them, we have equipped the Speedmaster XL 145 and XL 162 with extensive automation functions that allow numerous processes to run in parallel and in this way save valuable time.

Key components are:

- Intellistart 2, the process and job-oriented assistance system.
- AutoPlate XL for fully automatic, synchronized plate changes.
- Programmable, simultaneously operating washup devices for inking and dampening unit, as cloth washup device for blanket and impression cylinders.
  - Well over 100 washup cycles per cloth roll (washup program "Intensive").
  - Washup cloth changes during production.
  - Monitoring and indication for cloth changes in good time.
- The inking unit can also be washed in parallel to the fully automatic plate change. If a printing unit is not needed, the inking unit is shut down. Printing continues in the gear train, for greater reliability and quality.
- Remote fan-out control (RFOC) for easy adjustment at the trailing sheet edge from the Prinect Press Center XL 2.
- Fast accomplishment of a precise register.
- Custom circumferential and lateral control in case of uneven paper distortion.



#### **Performance Package Packaging and Packaging Extended**

The Performance Package is the complete solution for sheet guidance from the feeder to the delivery. All components are optimally matched to the substrates you use and ensure top-class print quality.

#### **AutoPlate Coating**

AutoPlate Coating provides fully automated, tool-free, and fast coating plate changes as well as automatic positioning runs. You reduce your makeready times and achieve maximum precision with the minimum of manual intervention.

#### **UV as integrated solution ex-works**

The optimal matching of all components means you also get the maximum performance of the Speedmaster XL 145 and XL 162 in UV mode. The UV dryers bear the BG test certificate “energy minimized UV-printing”.

#### **Overall concept for double coating applications (LYYL)**

The Speedmaster XL 145 and XL 162 double coating presses can do more than just combine conventional inks and UV coatings. Matt/glossy effects, area and spot coatings with dispersion coatings and/or UV coatings offer you a diverse range of finishing options. The ability to save all the dryer settings ensures fast and accurate reproducibility for repeat jobs. In this way you save time and avoid mistakes.

# As versatile as the requirements. Always the right solution.

Whether printing packagings, high-quality commercial jobs or web-to-print jobs – our Speedmaster XL 145 and XL 162 offer targeted solutions for the most different requirements in the respective industry segment.

## **Packaging and promotion – just-in-time short runs**

The market for industrial packaging printing is increasingly being dictated by larger formats combined with shorter runs. Short throughput times for product packagings with different model variants or product stands and displays require fast and efficient job changes. The Speedmaster XL 145 and XL 162 optimize your processes with their high level of automation and ensure economically successful print production in this area.

Intellistart enables convenient job preparation and fast job changes here. Simultaneous makeready processes shorten your makeready times. With Prinect Inpress Control 2, you can reliably and economically print even the most challenging subjects involving lots of spot colors in top quality.

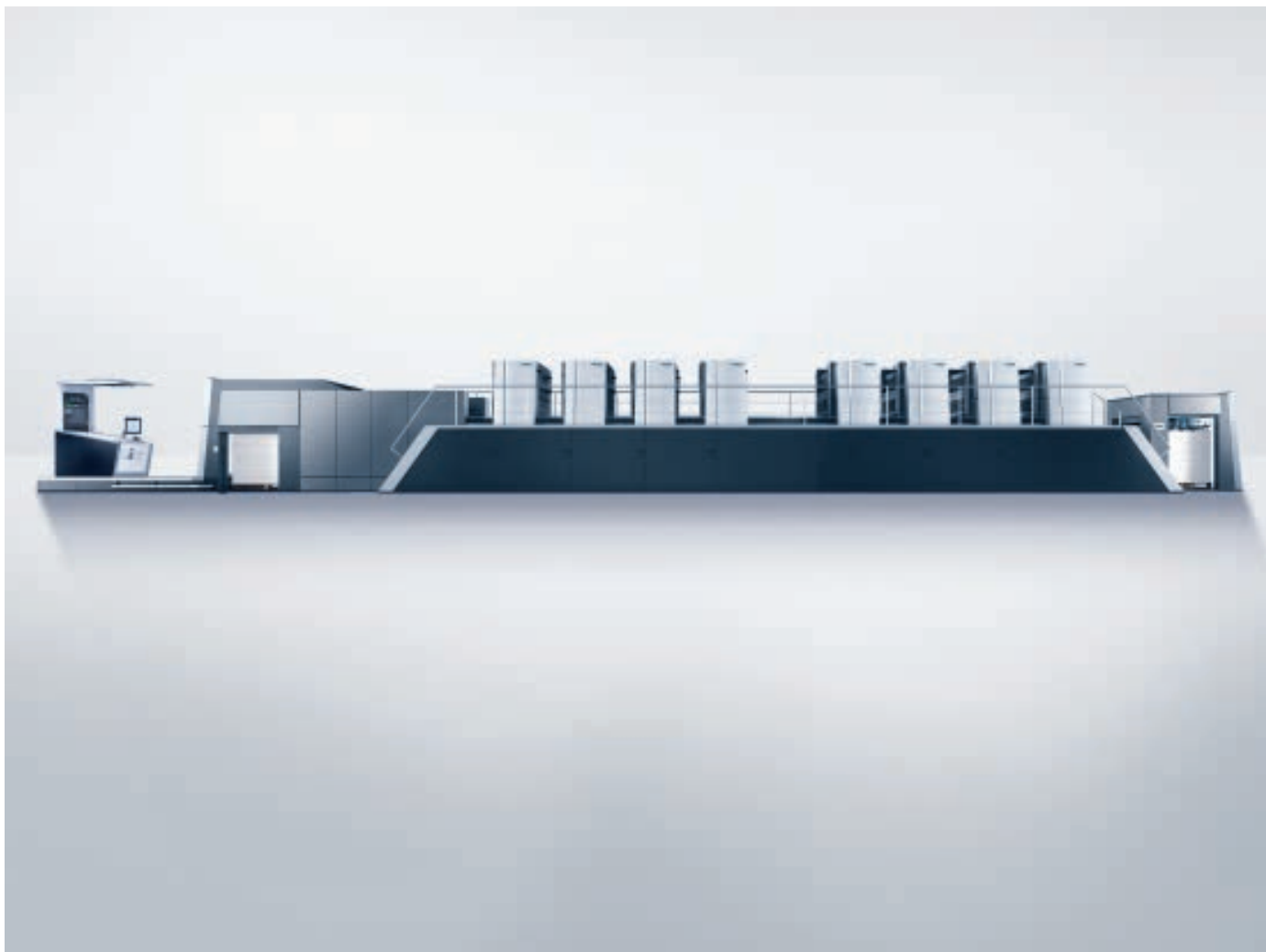
## **Consumer goods – packagings in long runs**

Packaging is important, and nowhere more so than in the consumer goods industry. It provides protection during transport and enhances products ranging from ready meals, beverages, and frozen foods to sweets and pet food. This generally involves large quantities of substrate and long runs with consistently high quality.

Starting with the sturdy press platform, all components of the Speedmaster XL 145 and XL 162 through to the high-performance dryers are perfectly designed for speeds of up to 18,000 sheets per hour. The stable inking units, the lean sheet travel, the inline measurement with Prinect Inpress Control 2, the inline finishing options, and the modular logistics concept guarantee you smooth production with top quality and productivity.

## **Highly finished packaging products**

High-quality packagings are often characterized by very complicated finishes. This poses new challenges for economical and ecological production. The technology of the Speedmaster XL 145 and XL 162 enables them to achieve top productivity even with highly finished products. The presses can be equipped for the additional use of spot colors and the required finishing. We specifically offer you options such as double coating technology – for unusual, striking, and innovative solutions for high-quality packaging printing.



### **Commercial printing and publishing**

Traditional commercial print shops print a wide range of jobs, usually in short and medium runs, and often on thin substrates and uncoated papers. With the Speedmaster XL 145 and XL 162 we offer innovative technologies in the areas of perfecting, delivery, and printing for the mainly 4/4-color production with image elements that run across the gutter in some cases. Prinect Inpress Control 2, the remote fan-out control, our perfecting technology, and the double gripper delivery ensure top print quality and productivity.

### **Web-to-print**

The production of standardized print products over the Internet is booming. The Speedmaster XL 145 and XL 162 can hold their own here too. Shortest makeready times thanks to the highest level of automation and simultaneous processes make even the shortest runs an economic success. Gang runs make optimum use of the large format. Our perfecting technology in combination with the innovative double gripper delivery offers you corridor-free printing and full sheet utilization with consistent 4/4-color

production. You print more repeats per sheet and achieve maximum productivity.

→ You can find user reports on the individual topics here: [heidelberg.com/xl145-xl162/user-reports](https://heidelberg.com/xl145-xl162/user-reports)

# Simply get in touch.

## Your dialog with Heidelberg.

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You and your company's success are our prime focus. To be able to realize this ideal, it is important for us to know your wishes and requirements. Only then can we offer you a customized printing solution that works perfectly for you.

### **We look forward to hearing from you!**

Get in touch with us for more information, a customized offer and everything else about Heidelberg and the Speedmaster XL 145 and Speedmaster XL 162 you would like to know.

#### **E-mail**

[info@heidelberg.com](mailto:info@heidelberg.com)

#### **Website**

[heidelberg.com](http://heidelberg.com)





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