The universal press.

Speedmaster CX 102.
A partnership that pays off. 
Heidelberger Druckmaschinen.

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
Our areas

Equipment

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

Service

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

Consumables

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

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The Speedmaster® CX 102 offers a modern press concept that combines the reliability of the CD series, tried and tested with well over 100,000 printing units installed worldwide, and the most innovative technology of the peak performance class.

The Speedmaster CX 102 is the universal straight-printing press in 70×100 cm (27.56×39.37 in) format. With speeds of up to 16,500 sheets per hour, there are very few challenges in commercial, label, and packaging printing that it cannot handle, and no customer requirements that it cannot meet. The perfect interaction of all components enables the Speedmaster CX 102 to easily process all materials from lightweight paper through to rigid cardboard.

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 automatically – from the last to the first good sheet, right up until production starts. The high level of automation and the intelligent control make operation extremely user-friendly and guarantee you wholly controlled and stable processes. They minimize makeready times, energy consumption, and paper waste, and by so doing increase your cost efficiency.
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 myWallscreen 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 measuring 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 Prinect

The Prinect Press Center XL 2 integrates your printing press into the Prinect® 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.

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

You can find more information on Prinect Press Center XL 2 here: heidelberg.com/en/prinect-press-center-xl2
Leader in the printing process.
17 clear benefits*.

Makeready
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**.

Accurate ink presetting makes the difference – the Color Assistant Pro software means that **fewer than 60 sheets** may be needed before the run can be started.

Clean and dry blankets in just **1 minute** with the blanket washup device.

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

Plate changes in under **2 minutes** with AutoPlate Pro on a Speedmaster CX 102 five-color press.

Ecology

Just **2 cl**

of washing fluid for each rubber blanket wash cycle.

**Top energy efficiency** at maximum production speed.
Outstanding characteristics.
The facts at a glance.

**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. Complete overview of all job parameters and transparency of the workflows.
- Prinect Inpress Control 2 automatically measures and controls color and register on the fly and at all speeds. As the press does not need to be stopped for either makeready or monitoring of the production run, Prinect Inpress Control 2 achieves maximum productivity.
- AutoPlate Pro for fully automatic, staggered plate changes.
- AirTransfer system with universal grippers on the transfer drum for materials in the range from 0.03 through 1.0 millimeters (0.0012 up to 0.0394 in). Simplified operation and minimal changeover effort with different paper and cardboard qualities.
- Blade washup device for inking unit and dampening system, blanket washup device for blanket and impression cylinders – for improved washing results, shorter washing cycles, and less washing fluid.
- The ink fountain is lined, making it quick and easy to clean. The ink zones require no calibration, and therefore also require no maintenance.
- The Color Assistant Pro software automatically compensates ink fountain liner wear before each job change for uniform and standardized ink presetting in each printing unit. Ink presettings for different papers, inks, and printing conditions are automatically corrected using a good sheet for less paper waste and faster job changes.
- Automatic non-stop delivery for fully automatic, interruption-free pile changes.
Speedmaster CX 102 – the universal straight-printing press, built for the future. The tried and tested base model of our 70×100 cm (27.56×39.37 in) presses features innovative solutions from the peak performance class. The result is a versatile, flexible, and economical press, perfectly tailored to the requirements of your customers and to your success.

**Highlights:**
- The Speedmaster CX 102 delivers high performance and productivity with up to 16,500 sheets per hour.
- Widest range of substrates from lightweight paper through to rigid cardboard (0.03 – 1 mm (0.0012 – 0.0394 in)).
- Fastest ink changes and ink fountain cleaning in the world.
- High level of automation for shorter makeready times, less paper waste, and dependably high print quality.
- Fast finishing with DryStar® LE UV and DryStar LED dryer technology.
- Ergonomic, operator-oriented design offers optimal access to all components.
- The components of the Star system are optimally coordinated with the press and integrated, for maximum energy efficiency and the shortest makeready times.

You can find more about technical data and facts here: heidelberg.com/cx102/technical-data

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**Prinect – the integrated print and media workflow.**

- Software modules for automated and transparent production control
- Prinect Production integrates prepress, digital and offset printing as well as postpress
- Prinect Portal opens digital doors, irrespective of working and production times
- Prinect Business links administration with production
- Prinect Media permits modern media communication, both online and printed

heidelberg.com/en/prinect
1 Feeder
- Preset Plus feeder automatically makes format and air settings, for reduced makeready times and steady sheet travel.
- Control panel with touchscreen for intuitive and ergonomic operation of feeder and machine functions.

2 Inking unit and dampening system
- Tried and tested inking unit with lined ink fountain, perfectly combined with the unique, speed-compensated Alcolor® dampening system, for outstanding production stability, high contrast, and homogeneous printing of solid areas.
- Color Assistant Pro software for self-calibration of the ink zones and automatic adaption of the characteristic profiles for perfect ink metering.

3 Printing unit
- AutoPlate Pro permits fully automatic, staggered plate changes within the shortest time.
- InkStar® ink supply system for automatic filling of the ink fountains.

4 Washup devices
- Fully automatic, program-controlled washup devices for inking unit, blanket and impression cylinders with sensor-based monitoring and extremely short washing times.

5 Sheet travel
- AirTransfer system, the patented, contact-free sheet guide with Venturi nozzle technology for outstanding sheet travel quality and substrate flexibility.

6 Color and register measurement and control system
- Prinect Inpress Control 2 spectrophotometrically measures and controls the color inline during production. The register is checked at the same time and readjusted if necessary.

7 Coating unit
- High-quality chambered blade system consisting of a blade chamber, exchangeable screen roller, and ink collecting pan with level sensors as well as a quick-change system for the blades for a homogeneous coating application with a high degree of gloss.
Dryer system
• DryStar Combination with infrared as well as hot-air and recirculated-air modules is optimally coordinated with the sheet travel – for excellent drying results.

Delivery
• Preset Plus delivery permits high-precision pile formation with the shortest makeready times by adopting presetting data.
• Automatic non-stop system for fully automatic, interruption-free pile changes at the delivery.
• Dynamic sheet brake accepts the sheet at production speed, straightens it, and decelerates it to the delivery speed under controlled conditions.

For maximum availability:
Predictive Monitoring.
• Continuous monitoring and analysis of the machine data of your Speedmaster
• Early fault detection by identification of problems before they lead to downtimes
• Definition of preventive measures
• Maximum machine availability and reliable production planning

You can find more about the details of your Speedmaster here:
heidelberg.com/en/cx102
You can find more about the economy and efficiency benefits of your Speedmaster including operating data, sample calculations, and application testimonials here:

heidelberg.com/cx102/efficiency

Availability

Preventative maintenance reduces the failure frequency of presses by up to 50%. Remote connection makes error analysis on average 50% faster.

Productivity

Stable production speed at 16,500 sheets per hour thanks to components from the peak performance class.

2 minutes less per pallet change and less startup waste thanks to uninterrupted production with the automatic non-stop delivery.

6% higher productivity than other presses in this class thanks to higher speed and components from the peak performance class.

30 jobs in under 3 minutes on the fly and then process them in a fully automated workflow.

User friendliness

100% transparency, even with complex job changes, thanks to the innovative, process-oriented operator guidance system Intellistart 2.

Just 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.

* See reverse
Energy-efficient and climate-neutral.

Trailblazer in green printing.

As a trailblazer in green printing, we develop solutions for conserving resources and sustainability. That is why the Speedmaster CX 102 not only sets technological standards in terms of its productivity, but also its environmental friendliness.

The Speedmaster CX 102 has been consistently designed to reduce and eliminate carbon dioxide (CO₂) and process emissions as well as waste. Its high energy and resource efficiency make it the most environmentally friendly press in its class. The energy efficiency of the press per 1,000 sheets can be measured and visualized during production using a measuring device. This enables the operator to operate the press at maximum energy efficiency. The Star system peripherals are perfectly coordinated with the press. They are highly efficient and designed to save energy and resources. Reducing or completely eliminating the use of alcohol by equipping the press with special packages makes another important contribution to green print production. This results in a print process that delivers environmentally friendly operation at lower costs.

**Air supply with the AirStar**
AirStar® Pro provides valuable advantages for air supply. AirStar Pro combines virtually all individual blowers providing vacuum and blast air in a single, central air supply cabinet. It doubles efficiency – in other words halves energy consumption – using unique energy- and space-saving turbo radial blowers. It also requires much less maintenance compared with the popular side-channel technology, saving you time, energy, and money.

**The efficient ScrollStar compressor**
Like AirStar Pro, ScrollStar® is also perfectly coordinated with the Speedmaster CX 102. The energy-efficient pneumatic compressor ensures that the supply of compressed air to the press is completely free of oil and condensation. Its low-wear design and the compressor’s high power reserves result in low energy consumption as well as excellent reliability and availability – for safe, resource-friendly production.

**Main drive with the highest efficiency**
The electronically controlled sine synchronous drive of the Speedmaster CX 102 offers impressive energy efficiency. The maintenance-free main drive delivers especially reliable operation with outstanding efficiency of up to 95 percent – for maximum availability and low operating costs.

**Energy-saving standby function**
The standby function of the Speedmaster CX 102 switches the entire press to energy-saving mode at the press of a button on the Prinect Press Center XL 2 if production is interrupted. As a result, the energy consumption of the press is reduced to a fraction of its previous level. This is an advantage that quickly pays dividends.

- Based on renewable and/or recyclable raw materials
- Free of SVHC (CMR, PBT, vPvB) in accordance with REACH regulation
- Lower emissions than comparable products
- Produced by ISO 9001/14001-certified manufacturers
- Comply with or exceed legal regulations and industrial performance standards

The CO₂-neutral press

CO₂-neutral production of the Speedmaster CX 102 is possible if the customer so wishes. During the production of the presses, the unavoidable CO₂ emissions are offset by investments in high-value gold standard certificates. We determine the CO₂ emissions of your specific press configuration on an individual basis using a method tested by the Fraunhofer Institute.

You can find more about our commitment to the environment here:
heidelberg.com/environment
Machine and markets.  
Equipped for all requirements.

The Speedmaster CX 102 is the universal press for almost all requirements. The users value the wide range of substrates and the high level of automation of the press. This allows you to offer your customers a comprehensive product range and maximum flexibility and in this way contributes to your overall success, especially in growing markets.

The universal press
The Speedmaster CX 102 is the ideal press for customers that process a wide range of substrates. Whether traditional advertising materials or products from the area of packaging printing, you can rely on the Speedmaster CX 102.

Preset Plus feeder
The right feeder for a wide range of substrates. It processes all materials, from thin to thick, without any problems or great effort thanks to automatic, substrate-dependent format and air settings on the basis of characteristic profiles stored as factory settings.

Preset Plus delivery
It ensures quick and easy finishing of all materials thanks to outstanding pile formation. Comprehensive air presets ex-works permit quick and easy substrate changes. In addition, the fully automatic non-stop system ensures uninterrupted production. For shorter runs, the rack system is used so that each run can be placed in its own pile.

Sheet guide
For optimal sheet travel for all substrates:
• Double-size impression cylinder for gentle sheet transport of even very thick substrates.
• A universal gripper system enables paper and cardboard to be processed without having to adjust the gripper pad height at the transfer systems.
• Air-supported Venturi sheet guide path stabilizes thinner substrates along the ideal sheet path.

Color Fast Solution
The Color Fast Solution software integrated in the Prinect Press Center XL 2 combines various applications for fast inking-up with little paper waste as well as for a stable ink-water balance. The Color Assistant Pro and the Color Booster as well as an improved preinking and automatic ink vibrator throw-off are important parts of the package alongside other functions.

Packaging printing
Packaging sells. A product must be eye-catching if it is to stand out from a rival product. More than ever, this is accomplished today with surface textures and Iridodin effects that not only increase the signal effect of the packagings, but also their protective effect. Effects and multi-sensory experiences fulfill the consumer’s need for packaging that appeals to all the senses.

The Speedmaster presses make us the leader in the area of premium packaging printing. The Speedmaster CX 102 especially provides all the prerequisites for success in this market. The cardboard kit offers reliable sheet travel when processing cardboard packagings. The FoilStar® cold foil module opens up a variety of unusual finishes – brilliant metallic effects that add value to your customers’ print products. UV technology adds high-gloss effects and eliminates waiting times during processing.

The Prinect packaging workflow integrates all of your print shop processes into a single workflow. Fast, flexible, and cost-transparent production delivers precisely reproducible processes and top quality.
Commercial printing
Commercial products are facing tough competition from digital platforms as an advertising medium. However, print media still have clear benefits. The feel and high-end appearance of the printing medium lend the product to be advertised an overall sense of quality. The combination of digital elements like QR codes or augmented reality and premium printed products delivers critical added value. Success in this market demands a lean and efficient production process that optimizes the costs and therefore the cost efficiency.

The print shops that benefit most from the strengths of the Speedmaster CX 102 are those with frequent job changes, short production runs, and standardized jobs: the highly automated high-performance feeder and delivery offer outstanding operating stability with fully automatic pre-settings for all relevant format and air values on the basis of substrate-dependent characteristic profiles stored as factory settings. This minimizes your makeready times and allows you to achieve high production speeds.

The innovative DryStar LE UV and DryStar LED dryer technology now brings all the advantages of UV printing to commercial printing.

You can find user reports on the individual topics here: heidelberg.com/cx102/user-reports
Simply get in touch.
Your dialog with Heidelberg.

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 CX 102 you would like to know.

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