



Speedmaster CD 102

Technology in a New Dimension

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Content

Technology in a New Dimension

- 4 The Future Has Begun
- 6 Prinect CP2000 Center
- 8 Preset Plus Feeder
- 10 Printing Unit
- 12 Inside View
- 14 Press Configurations and Technical Data
- 16 Coating Innovations
- 18 Preset Plus Delivery
- 20 DryStar 3000 Generation of Dryers
- 21 Peripherals
- 22 Speedmaster CD 102 Duo
- 23 Cost-Effectiveness
- 25 Workflow
- 27 Heidelberg Solutions

The Future Has Begun • Greater reliability and productivity – discover the sophisticated technology of the Speedmaster CD 102.



Productive and versatile – the Speedmaster CD 102, equipped with innovative technology

The next generation

The new Speedmaster® CD 102 is your route to a new dimension in innovative technology. The future-focused concept behind this universal straight printing press will enable you to work more productively and flexibly, giving you an excellent basis for market success.

In conjunction with the Prinect® CP2000 Center®, the new Speedmaster CD 102 offers you comprehensive workflow integration based on open, future-proof standards.

It is available in a wide range of models, so it can be tailored to your precise requirements. Heidelberg® can offer every customer the optimum press configuration – presses with two to ten printing units, configurations integrating up to two coating units and two drying units, and even pure coating machines.

Innovative and productive

The enhanced performance delivered by the new Speedmaster CD 102 from Heidelberg will bring you many advantages, such as a high degree of automation and cost-effectiveness. Thanks to its "Plus" options, printers can also concentrate more closely on the quality of the printed result. Enhanced preset functions, reduce manual setup work to ensure ease of operation. And digital integration into the printshop's workflow means that jobs can be processed in time. Further improvements to the automation and to the feeder and delivery means that the new Speedmaster CD 102 can be performs better than ever before.

Why not benefit by using the new press components to improve your net output and by taking advantage of solutions that are completely tailored to your needs? You can be sure that the new Speedmaster CD 102 is the ideal press when it comes to label, commercial and folding-box printing.

Optimized operation and cutting-edge technology:

The Prinect CP2000 Center

Equipped with the Prinect CP2000 Center, the Speedmaster CD 102 offers users the very latest press control technology. This expandable and future-focused system brings man and machine into perfect harmony. All operations are carried out on the touchscreen, which is central, comprehensive and easy to use.

The Prinect CP2000 Center makes your workflow even more efficient. The link to the digital prepress stage allows you to network all the production steps in your printshop, thereby ensuring efficient job throughput.

As part of the cutting-edge operating philosophy of the Speedmaster CD 102, almost all peripheral devices are controlled by the Prinect CP2000 Center via CANopen. Dryer, air and powder values can be preset. This saves valuable time and cuts costs when it comes to repeat jobs.

Enhanced user friendliness thanks to functional design

The Speedmaster CD 102 is customer-focused, optimized in design for greater productivity and user-friendliness. That's why we've optimized the design of the Speedmaster CD 102 even further. We have completely redesigned the printing unit guards and made a large number of ergonomic refinements – innovations which make the Speedmaster CD 102 not just the most productive press in its format class, but one that offers a whole new standard in well thought-out functionality.

Maximum automation and user-friendliness ensure stable production for the whole job.



Prinect CP2000 Center • Where intelligence meets efficiency. The innovative technology in your Speedmaster CD 102 is simple, precise and easily controlled using the touchscreen.

The whole press is controlled centrally and quickly via the touchscreen on the CP2000 Center.



Prinect CP2000 Center

If you want to secure your long-term business success, you should use future-focused solutions like the Prinect CP2000 Center from Heidelberg. It combines enhanced productivity and advanced user convenience. By integrating perfectly into the production and management workflow, the Prinect CP2000 Center will ensure that you get maximum cost-effectiveness from your Speedmaster CD 102.

As a market leader, Heidelberg is committed to meeting the very highest quality standards. When it comes to job changes, for example, a characteristics database is provided to ensure that every aspect of your production is taken into account, and the proven Color Fast Solution functions to speed up inking unit response. Adaptive ink presetting is the ideal solution for shorter makeready times. The Prinect CP2000 Center also ensures enhanced availability of your Speedmaster CD 102. In addition to the four standard washup programs, an additional eight freely definable washup programs

deliver maximum user convenience and ensure speedy production. To enable you to further enhance the availability of your printing press, integrated maintenance notes are used to remind you when to carry out these routine tasks.

The Prinect CP2000 Center supports CANopen technology to control peripheral devices. Star components can be integrated easily and quickly monitored and precisely operated using the touchscreen on the Prinect CP2000 Center. With your Speedmaster CD 102 and the Prinect CP2000 Center, you'll give yourself that decisive edge.

The scope of function of the Prinect CP2000 Center grows with your requirements. For example, the capacity of the internal job store can be expanded from 250 to 5,000 storage locations using Memory Plus. Thanks to its integrated search and filter function, jobs can be located and called up quickly, reliably and simply. Whether you want to make process technology enhancements to your Speedmaster CD 102 or optimize its integration in

the Prinect Workflow, the Prinect CP2000 Center software options will provide you with tailor-made solutions.

Process engineering enhancements

Instant Start UV

This new software option can be used on presses with CANopen-enabled UV end dryers of the latest generation. This considerably reduces the waiting periods before and after UV washup. When it comes to blanket washups, you don't have to wait at all. This saves you five to eight minutes for each washup procedure. It also lengthens the service life of the UV lamps, since the dryer continues to run in standby mode during washup.

DryStar Advanced

The DryStar® Advanced software module is a convenience function for presses equipped with a DryStar 3000 dryer. Control parameters such as pile temperature and sheet guide path temperature can be set directly on the Prinect CP2000 Center. Settings can be stored with the job, so that they are available later for repeat jobs.

Integrating the Speedmaster CD 102 into the Prinect workflow

Prinect is the comprehensive workflow management system from Heidelberg. It integrates and optimizes the workflows in printshops – from management to production and from prepress to finishing.

The finely tuned interaction of the various Prinect components provides greater efficiency for production workflows, offers greater process transparency and thereby accelerates the entire job flow. The following modules are available for the Prinect CP2000 Center:

Preset Link

Preset Link allows ink presettings to be transferred online from the prepress stage using the Prinect Prepress Interface to efficiently support the setup process.

ManagementGate

ManagementGate™ can be used to connect industry software such as Prinect® Prinance® and the Prinect Data Control production and information system. The

recorded production data is available in real time, thereby simplifying post-costing. The new Prinect Press Reporting feature also allows production data relevant to operations to be simply displayed on a connected, network-enabled PC.

Online Assistance

Online Assistance provides a link to the Heidelberg service and diagnostics system by modem and telephone. This enables our service engineers to carry out precise remote diagnosis in the event of faults, providing you with expert advice and fast assistance. You'll benefit from increased press availability.

The new user interface lets you control the printing press even more efficiently.



Innovation From the Word Go • With the Preset Plus Feeder, Heidelberg offers you optimum performance with minimum makeready times.



The innovative Preset Plus Feeder considerably enhances the productivity of the Speedmaster CD 102.

Extensive new features

In order to make paper travel even more reliable the Speedmaster CD 102, the Preset Plus Feeder from Heidelberg has been developed according to a completely new feeder principle. Our groundbreaking innovation eliminates your need to make manual adjustments when handling job changes. Instead, you can concentrate fully on the most important thing: print quality.

Sheet separation

When it comes to sheet separation, sheet transport from the pile to the feed table is as smooth and reliable as can be. To ensure optimum performance, the suction head automatically adjusts the control times to ensure that the correct quantity of air is used at the correct time when press speed increases. Three additional forward suckers hold on to the trailing edge of the sheet that has been separated from the pile – and do so for a prolonged period. What's more, because the governor foot and carrier air blowers are separated allows approximately 40% more blast air can be blown under the sheet and distributed evenly.

Feed table

The most outstanding feature of the all-new feed table is the central suction tape with its three-chambered system that slows down sheet transport by up to 65%. This guides the sheet gently to the front lays and aligns it before it is brought back up to full production speed in the front lay area. Since there are no longer any sheet smoothers, there's almost no manual setting work for you to do, which saves you additional time.

Multi-stage sheet monitoring

The multi-stage sheet monitoring concept from Heidelberg helps to prevent any double, multiple or damaged sheets from being fed into the press, where they could damage important components. There are four different components to ensure complete reliability here.

The multiple-sheet detector is integrated into the forwarding roller and automatically adjusts to the stock thickness entered into the Prinect CP2000 Center. This means that, double or multiple sheets are prevented from getting onto the feed table.

Shingle stream control prevents any paper scraps or damaged sheets from finding their way into the press. Rollers are distributed across the whole width of the sheet, so that all areas of the sheet are monitored.

The ultrasonic double-sheet detector works without contacting the sheets and therefore leaves no marks. It can handle all common types of stock. It is optimally backed up by the fully automated inductive pull lay double-sheet detector, which is mainly used with printing stock which cannot be detected by the ultrasonic double-sheet detector (e.g. Microflute).

Sheet alignment

The sheet alignment function ensures register accuracy within a run or over several press passes. For lateral alignment, pneumatic pull lays are used, while the front lays and drive rollers look after circumferential alignment.

As well as identifying early, late and misaligned sheets, the sheet arrival control function also makes automatic corrections via the suction head. Two electric eyes record the arriving sheets and check that they arrive on time and in parallel at the front lays. Early or late sheets are visually displayed, while misaligned sheets are corrected at the suction head using the forwarding sucker bar.

Enhanced preset functions

In order to further enhance the unique advantages of the Preset Plus Feeder, which offers top performance and minimum makeready times, Heidelberg has equipped it with a number of new and important preset functions.

The most important characteristics of the preset functions are stored on the Prinect CP2000 Center. As soon as the job data has been entered here, the pull lay, the side stops, the lateral sheet-separation blowers and the suction head all adjust to the correct format. At the same time, the air supply for the suction tape, the active pneumatic pull lay and the drive rollers are adjusted to suit the printing stock. Manual adjustments can be carried out if necessary.

The most important preset functions at a glance:

- Positioning of active and passive pull lay to the format
- Format adjustments of lateral sheet-separation blowers and suction head
- Height of cover guides
- Air supply to the central suction tape, the active pneumatic pull lay and the drive rollers in the feed area
- Double- and multiple-sheet detection

Once the job is complete, all the feeder-related values can be stored together with the job data so that they can be called up again for repeat jobs. This saves you additional makeready time, enhancing the cost-effectiveness of your Speedmaster CD 102.

Automatic non-stop device and the Logistics system

The automatic non-stop device makes pile changing far easier, since all functions can be activated at the simple touch of a button without the need for manual intervention by the operator. This includes the retraction of the non-stop rake, aligning the main and secondary piles, merging piles and pulling out the non-stop rake.

In combination with the Logistics system, pile changing is triggered automatically as soon as a defined residual height has been reached. The new pile is automatically inserted, and the empty pallet is moved out. The Logistics System ensures an automated, optimized material flow.

Built-In Precision • With its groundbreaking technology and top production precision, the printing unit of the Speedmaster CD 102 from Heidelberg gives you that decisive edge over the competition.

Printing unit

Precision down to the very last detail – that's what the printing units on the Speedmaster CD 102, with their proven technology, are all about.

Hardened bearer surfaces and computer-designed base frames ensure absolutely smooth operation. The optimum cylinder arrangement ensures smear-free sheet travel for all grammages from thin paper to stiff card.

Press operation using the Prinect CP2000 Center, modular blanket and impression cylinder washup devices and InkLine Direct give you maximum automation.

Inking unit

The Speedmaster CD 102 is equipped with optimized, quick-action ink fountains.

Instead of using rings to support the ink metering cylinders on the ink fountain roller, the new concept uses metering elements with support fingers. This achieves a far longer service life for the ink fountain liner and at the same time enhances ink constancy over long job runs.

Precision inking unit temperature control with CombiStar® delivers stable conditions from the first sheet to the last. The preinking profile, the intelligent pre- and post-dampening program and automatic distributor switchoff to maintain the color profile when printing is interrupted all considerably reduce startup waste and shorten makeready times. The point at which the distributor comes into play can be adjusted via the Prinect CP2000 Center, using the distributor remote control function while the press is running. The software-controlled Color Fast Solution module, which speeds up inking unit response 50 – 70% delivers further optimization of color adjustment. When there are large changes in the volume of ink applied, automatic monitoring of dampening solution quantity achieves a constant ink-water balance to ensure stable print quality.



Functional design and improved ergonomics really make the inking unit on the Speedmaster CD 102 stand out.

For maximum operator convenience, all the inking unit functions are centrally controlled from the Prinect CP2000 Center.

Dampening system

The speed-compensated Alcolor® continuous dampening system from Heidelberg ensures maximum brilliance and top print quality throughout the job, thanks to its even dampening film and stable ink-water balance.

The Vario system prevents hickies forming on the plate – a function which is achieved using a speed differential between the dampening form roller and the plate cylinder.

The Alcolor continuous dampening system also makes it easy to change over to reduced-alcohol printing.

Since a clean dampening solution is the key to a good print result, Heidelberg now equips all its CombiStar and HydroStar® devices with the new SoftFlow filter. With its fine pores, this filter collects any impurities from the dampening solution return, which means that the solution can be used for two to three times longer than usual. This protects the environment and helps you cut costs.

AutoPlate

With AutoPlate – the proven standard for automated plate changing in the printing industry – every plate is clamped quickly and true-to-register, ensuring top productivity from the word go.

InkLine/InkLine Direct

InkLine and InkLine Direct are inking systems that ensure a constant volume of ink is provided automatically for the duration of the job – an important factor in improving production reliability. An ultrasound sensor regulates the constant volume of ink in the ink fountain. Since all ink fountains are filled automatically and simultaneously when the press is switched on and cartridges are emptied very cleanly, you can save considerable time and money.

In addition to the 2 kg ink cartridges, InkLine Direct also offers fully automated ink feed through a central ink supply system.

Operation of the two systems can be integrated into the Prinect CP2000 Center using CANopen. Visual and audible signals give you plenty of warning of when a cartridge needs to be changed. You can also effortlessly match the level of ink in the ink fountain to the ink consumption required for a particular job from the control station. You can also read off ink consumption from the display – which simplifies post-costing of the job and also makes things much more precise.

Modular blanket and impression cylinder washup device

The modular blanket washup device is a self-contained system that is printing-unit compatible and can therefore be moved from one printing unit to another. An oscillating, counter-rotating brush ensures a superb washup result and minimizes unproductive downtimes. The entire device can be easily cleaned outside the press and independently of the production run. WashStar® removes the used cleaning agent and automatically rinses the collecting pans.

With the modular impression cylinder washup device, the press can actually go on printing while necessary cleaning of the device is being carried out. This increases press availability and enhances productivity. Operation is simplified by the fill-level monitoring function on the waste collecting container. This makes overflows a thing of the past, preventing the need for additional cleaning.

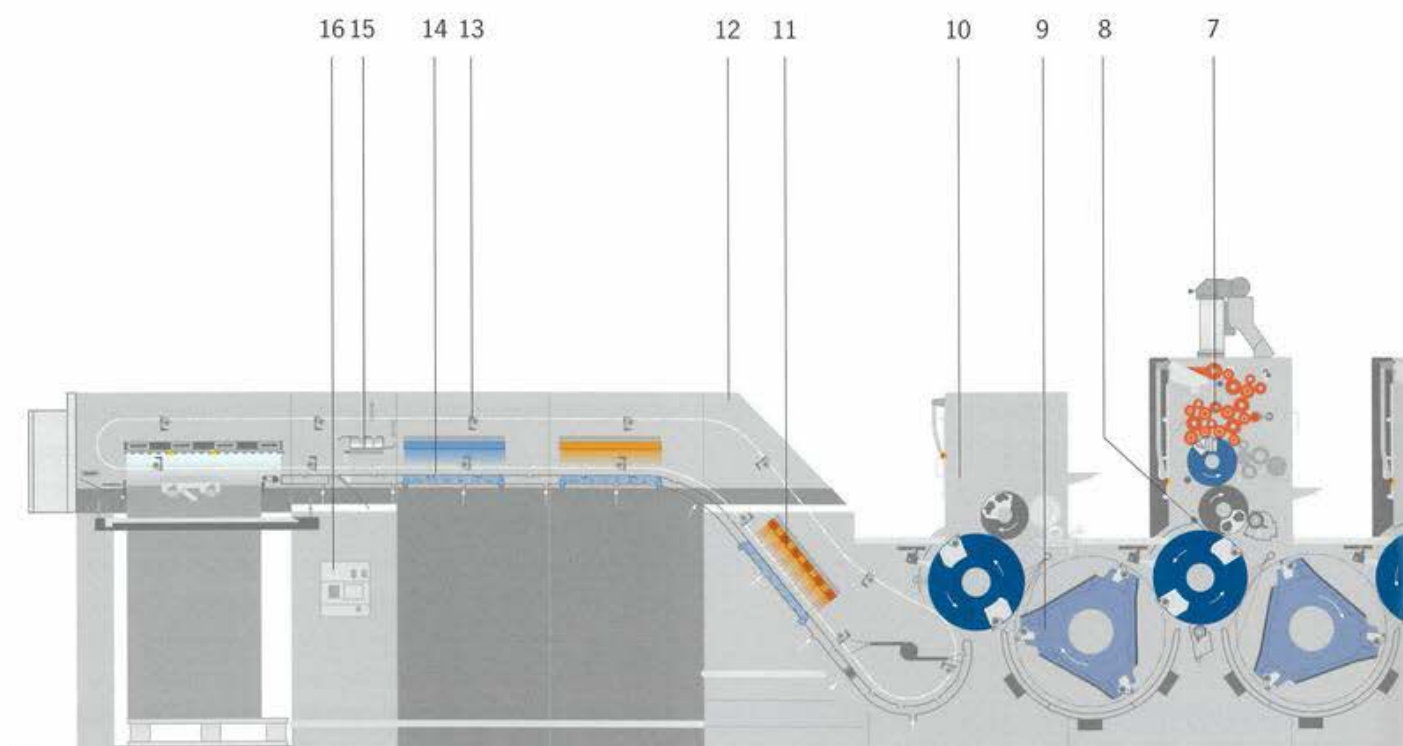
AirTransfer

The innovative AirTransfer technology is another factor that makes the Speedmaster CD 102 the ideal printing press for a broad market segment. Venturi nozzles create a cushion of air on which the sheets are transferred from one printing unit to another without contact. AirTransfer automatically activates as soon as a paper thickness of less than 0.3 mm is input on the Prinect CP2000 Center.

AirTransfer ensures perfect sheet travel for a wide range of printing stocks.

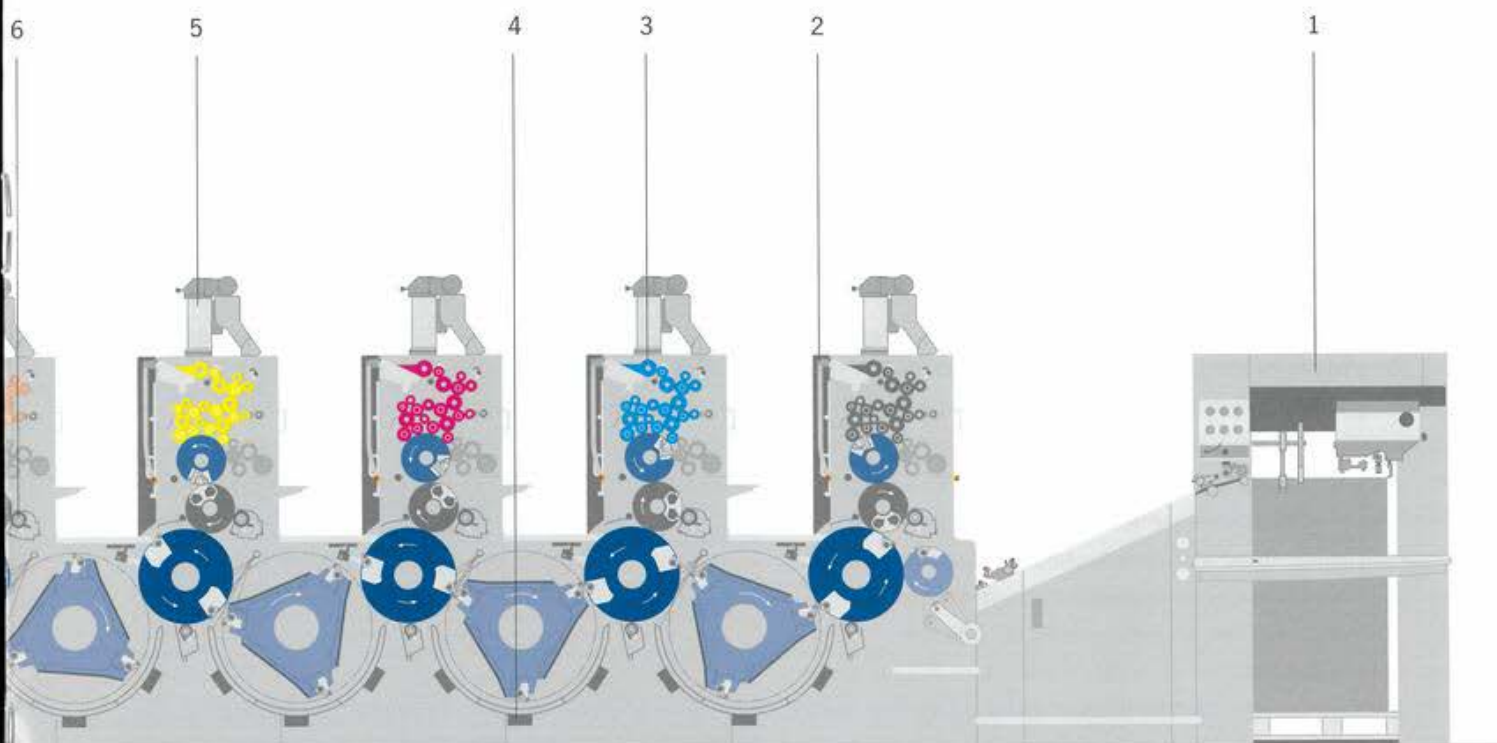


Inside View of Your Speedmaster CD 102*



* The press shown here is a sample configuration. Some of the features shown are optional.

- 1 **Preset Plus Feeder.** This suction tape feeder sets new standards and has been designed with top performance and reliability in mind, ensuring stable and precise sheet travel with sheet thicknesses up to 1.0 mm.
- 2 **AutoPlate.** The proven standard in the printing industry for automated, true-to-register plate changing.
- 3 **Remote distributor adjustment.** The point at which the distributor comes into play can be adjusted via the Prinect CP2000 Center while the press is running.
- 4 **AirTransfer.** Contact-free sheet guidance of all types of stock thanks to patented Venturi technology.
- 5 **InkLine/InkLine Direct.** Heidelberg ink feed system for automatically filling and monitoring the level of ink in the ink fountains.
- 6 **Modular blanket washup device.** For fast, efficient washup results. Program-controlled via the Prinect CP2000 Center; can be used with washup solution and water. Automatic self-cleaning cycle after each blanket washup when using WashStar.
- 7 **CombiStar inking unit temperature control.** Inking unit temperature control ensures a constant temperature in the inking unit, thereby achieving stable printing quality throughout the job.
- 8 **Prinect Auto Register.** Fully automated inline register control reduces makeready times.
- 9 **Remote adjustable diagonal register.** The remotely adjustable diagonal register for the coating unit cuts makeready times and reduces startup waste.



10 **Coating system.** Coating can be applied using a chambered blade and dual-roller system or using Flexokit.

11 **DryStar 3000 dryer systems.** The various types of dryers available are modular, offering tailor-made solutions to suit any area of application, and are optimally tuned to sheet travel. Round nozzle technology has doubled performance and further improved sheet travel.

12 **Preset Plus Delivery with extended delivery.** The new delivery in combination with the extended delivery offers an optimum drying and travel path for a wide range of coating applications.

13 **Gripper bars.** The flow-through profile of the gripper bars achieves stable and flutter-free sheet travel without complex setup operations and without the risk of scratching and smearing.

14 **Sheet guide path.** The sheet guide path generates a stabilizing air cushion underneath the sheet, thereby facilitating mark-free sheet travel.

15 **CleanStar.** The exhaust air cleaning system for the Preset Plus Delivery considerably reduces dust and powder in the pressroom. The new fold-away extraction duct allows optimum access to the sheet guide path and powder tube for cleaning purposes.

16 **PowderStar Duo Plus.** This innovative system ensures that powder is applied more uniformly on both sides of the printed sheet.

Press configurations for the Speedmaster CD 102

Equipment	1+L	1+LYL	2	2+L	2+LYL	3	3+L	3+LYL	4
Number of printing units	1	1	2	2	2	3	3	3	4
Number of coating systems	1	2	–	1	2	–	1	2	–
Number of drying systems	–	1	–	–	1	–	–	1	–
Extended delivery	•	•	–	•	•	–	•	•	–
Prinect CP2000 Center	•	•	•	•	•	•	•	•	•

Equipment	4+L	4+LYL	5	5+L	5+LYL	6	6+L	6+LYL	7
Number of printing units	4	4	5	5	5	6	6	6	7
Number of coating systems	1	2	–	1	2	–	1	2	–
Number of drying systems	–	1	–	–	1	–	–	1	–
Extended delivery	•	•	–	•	•	–	•	•	–
Prinect CP2000 Center	•	•	•	•	•	•	•	•	•

Equipment	7+L	7+LYL	8	8+L	8+LYL	10+L	LYL	LYLY
Number of printing units	7	7	8	8	8	10	–	–
Number of coating systems	1	2	–	1	2	1	2	2
Number of drying systems	–	1	–	–	1	–	1	2
Extended delivery	•	•	–	•	•	•	•	•
Prinect CP2000 Center	•	•	•	•	•	•	•	•

• Available

Further configurations on request

Technical specifications

Printing stock

Thickness	Thin paper to 1.0 mm (0.039 in)
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Sheet format

Max. sheet format	720 mm x 1,020 mm (28.35 x 40.16 in)
Min. sheet format	340 mm x 480 mm (13.39 x 18.90 in)

Printing format

Standard (max.)	700 mm x 1,020 mm (27.56 x 40.16 in)
with AutoPlate (max.)	710 mm x 1,020 mm (27.95 x 40.16 in)

Pile heights incl. pallet

Preset Feeder	1,230 mm (48.43 in)
Preset Plus Feeder	1,320 mm (51.97 in)
Preset Delivery	1,205 mm (47.44 in)
Preset Plus Delivery	1,295 mm (50.98 in)

Technical data can vary according to job, ink, printing stock and other factors

From Coating to Drying – Brilliant Solutions for Fast Finishing •

Coating systems

When it comes to the coating unit, Heidelberg gives you a choice between the dual-roller system and the chambered blade system either of which can be configured as a conventional system or as Flexokit. For entry-level coating applications, Heidelberg also offers the MCS (Modular Coating System) at the last printing unit of the Speedmaster CD 102. Heidelberg has the right solution for every need – from the entry-level system to the high-end version – thereby giving the printer maximum flexibility.

Flexokit

Flexokit, the closed chambered blade system for the coating units on the Speedmaster SM 102 and CD 102, is Heidelberg's answer to the needs of printers and the demands of the coating market.

The system is ideal for all printers who often use special coatings (Metalure, gold, silver, Iriodin and coatings that tend to foam easily) and want to ensure reliability in production. Flexokit is therefore highly recommended for folding box and label printers. Commercial printers using these coatings can also benefit from it.

The advantages of Flexokit at a glance:

- Simple processing of gold and silver coatings and coatings that tend to foam easily
- Simple processing of special coatings with a high proportion of solids (e.g. Iriodin)
- High-viscosity coatings can be used
- Low-maintenance
- Closed coating circuit means reduced amount of cleaning
- Higher coating quality
- Optimized reliability in production in the event of pump defects (rupture monitoring)

MCS (Modular Coating System)

This chambered blade system can be installed in the final printing unit of Speedmaster CD 102 presses without a coating unit in place of the blanket washup device. It provides you with greater flexibility because it allows the final printing unit to be used as a normal offset printing unit or as a coating system. With the MCS, Heidelberg has developed a low-cost solution especially for printshops which only coat a small proportion of their jobs.



The Modular Coating System is the ideal choice if you handle only a small amount of coating work.

The advantages of the Modular Coating System at a glance:

- Flexible use of the press
- Full-area protective coatings for faster working and turning and speedier finishing
- Full-area glossy coatings to clearly enhance the quality of jobs and expand your portfolio
- Short changeover times from blanket washup device to MCS and vice versa
- Optimum integration into the production process thanks to CANopen link

Diagonal register

The Prinect CP2000 Center can be used to remotely adjust the diagonal register for coating units on the Speedmaster CD 102. In contrast to manual adjustment, this maximizes precision – a fact that really enhances the quality of spot coating operations.

Increments of ± 1 mm can be selected on the Prinect CP2000 Center and adjustment is continuous.

The advantages of the diagonal register at a glance:

- Adjustment increment of ± 1 mm largely eliminates the need for manual adjustment
- The settings on the Prinect CP2000 Center are reproducible and reduce the number of adjustments that need to be made
- The settings can be made in parallel to the register settings in the printing units and to the lateral and circumferential register settings in the coating unit
- The settings can be made during production
- Overall, the diagonal register helps the printer to cut makeready times and costs

The diagonal register of the coating units is easy to adjust from the Prinect CP2000 Center.



Extended delivery

The extended delivery provides a travel and drying path for the coating that is tailored to the modular DryStar 3000 dryer type chosen. The coating is spread evenly over the entire sheet, improving coating quality. This delivers top quality even at high press speeds. Depending on individual customer requirements, the extension modules can be equipped with the various dryers that Heidelberg offers.

Coating supply unit

More and more printshops are offering their customers high-quality coating options. To ensure that this portfolio expansion is worthwhile for you too, Heidelberg has developed the new CoatingStar coating supply unit. Its efficient, faster method of changing from one type of coating to another will save you considerable time. The first annular piston pumps to be used in the printing industry allow the pump output to be enhanced greatly. This speeds up and shortens the washup procedure. For the first time ever, it is possible to heat up the rinse water to enhance its cleaning performance. The CANopen link to the Prinect CP2000 Center allows an individual washup program to be set for every type of coating. In this way, the whole system, with its hoses and coating pan, is quickly cleaned.

The pumps are solvent-resistant and offer long maintenance-free service lives. Since they can be run both forwards and backwards, residual coating left in hoses and the coating unit can be pumped back into the coating container. This makes cleaning easier and reduces the amount of residual coating which has to be disposed of, saving you sizeable sums of money, particularly when using expensive effect coatings.

The CoatingStar from Heidelberg can be used for the dual-roller system, the Flexokit closed chambered blade system and the conventional chambered blade system. With its universal coating supply system, a full range of coatings – including dispersion, UV and effect coatings – can be used simply and quickly.

Everything Runs Smoothly • The Preset Plus Delivery achieves greater reliability in production thanks to its innovative solutions.

Thanks to the many options it offers, the Preset Plus Delivery can be tailored to the most diverse of requirements.



Innovations to meet your needs

If you want to handle changing printing stocks, forms and grammages and small, medium-sized and large jobs, the 28" (70 x 100 cm) format will give you the speed and flexibility you need to position yourself successfully on the market. As well as constantly improving print quality, higher productivity and shorter makeready times achieved through maximum automation and user-friendly ergonomics are also vitally important.

Heidelberg has really focused on the needs of its customers when designing and developing its products. We understand the need for stress-free working at all speeds and a safe and clean working environment. At the end of the day, achieving this largely depends on the performance achieved by the final part of the printing press – the delivery.

When developing and improving our products, we make sure that your expectations are fully met in this area. We're consistently trying out new solutions, and we are particularly concerned about environmental aspects as well. That's how we ensure that you as a Heidelberg

customer are equipped for any challenge – today and tomorrow.

Special features of the Preset Plus Delivery

The latest result of our customer-focused development work is the Preset Plus Delivery, which has been specially designed as an option for the Speedmaster CD 102. In its development, we took care to include various innovative features, including a modular design which allows the optimum dryer solution to be selected from a large range of options to suit individual requirements for quality and speed.

The new smoother sheet guidance system greatly enhances print quality, allowing precise pile stacking even with the trickiest materials. This also ensures fast, problem-free finishing.

The Preset Plus Delivery uses the new DryStar 3000 generation for gentle, effective drying.

Enhanced preset functions

Thanks to its completely new concept, the Preset Plus Delivery from Heidelberg has more storable preset functions which help you to cut makeready times and improve your productivity.

The Prinect CP2000 Center uses the data from prepress to optimize the presettings on the delivery and press. Finely tuned settings are stored so that they can be called up again at any time for repeat jobs. All major air and format settings can be performed conveniently on the Prinect CP2000 Center or the operating panel on the delivery.

One example of the enhanced preset functions is the comprehensive preset capability of the sheet brakes. They can be positioned individually, and format and total air volume can be preset. Up to five modules with three different, interchangeable belts can also be adjusted to suit the relevant printing stock in a matter of seconds. The newly developed delivery air system, which passes an eddy-free air flow over the paper pile, can also be preset. This achieves much more stable sheet delivery, even with thin printing stocks – and pile quality is improved too.

All in all, efficiency and user-friendliness are clearly enhanced. And, thanks to greater reliability in production, you can concentrate more on the quality of your work.

Powder spray devices for all needs

The PowderStar® Exatronic Plus and PowderStar Duo Plus powder spray devices can be completely controlled from the Prinect CP2000 Center using CANopen technology.

The PowderStar Exatronic Plus has a CANopen control station link which, in addition to automatic presetting, also allows job-related storage of all settings. Powder is applied from above and has been further optimized using an innovative powder nozzle design.

The PowderStar Duo Plus also features a CANopen control station link. Powder is applied from above and below using a special nozzle bar in the area of the air guiding foil – technology that is only available from Heidelberg. Enhancements made to the powder nozzles in the sheet guide path on the Preset Plus Delivery have further improved powder application. This will enable you to achieve higher print quality and flatter piles.

Flexibility through modular design

As standard, the Preset Plus Delivery consists of a single module linking the delivery with the final printing unit and the pile module. This link module includes the sheet transfer and sheet ascent ramp, into which a DryStar 3000 dryer can be optionally integrated.

You also have the option of arranging up to three extension modules between the link module and the pile module. These extension modules can also hold up to three DryStar slide-in dryers. They ensure smooth sheet travel, thorough drying, reduced powder use and precisely aligned piles.

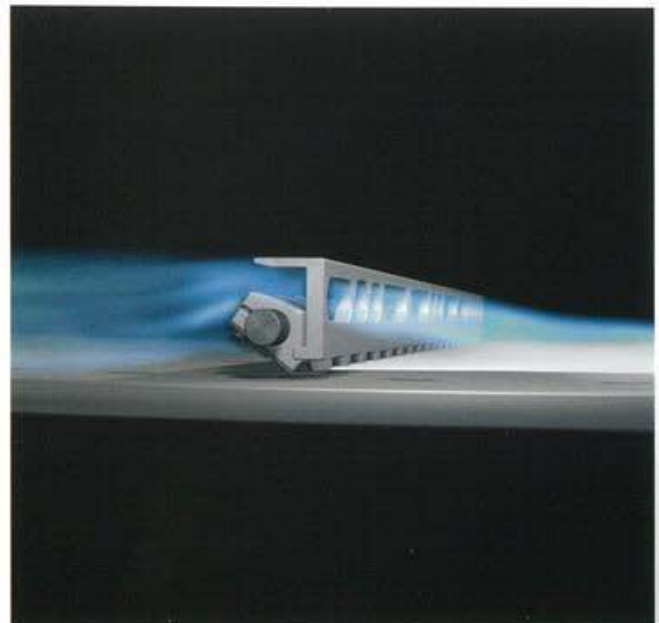
The modular structure allows you to choose exactly the right delivery for your needs.

Innovative gripper bar

Heidelberg is breaking new ground with the design of its gripper bar. Its special shape allows air to pass through and virtually eliminates air turbulence in front of and behind the bar. At the same time, the distance between the gripper bar and the sheet guide path has been reduced to maximize the efficiency of the Venturi sheet guide plate.

The result is impressive. The presettable sheet guide path and the innovative gripper bar make for extremely stable sheet travel without any fluttering and without risk of scratching or smearing.

The new design of the gripper bar achieves more stable, flutter-free sheet travel.



Performance That Pays Off • The DryStar 3000 generation of dryers simply delivers more: more performance, more convenience, more efficiency.

Impressive performance and quality

With the new DryStar 3000 dryer series, Heidelberg presents the next generation of high-performance dryers. All the models in the series deliver high drying performance and optimum drying features for a wide variety of applications. They are perfectly tuned to contact-free sheet travel, thus allowing the press to be utilized to the full. The modular design and outstanding accessibility mean that you can easily switch from one dryer to another, which makes for faster finishing.

Higher dryer output for reliable drying

Large areas of round nozzles greatly increase the delivery of hot air energy with double the air volume. This ensures effective application of hot air, the water vapor that is created being extracted across the whole width of the dryer. The dryer is positioned closer to the sheet, further enhancing efficiency. Blowers are fitted directly to the

slide-in unit and enable air to be supplied without loss of performance. The result is impressive. Sheet drying is much improved and is more reliable.

Operation more ergonomic

Greatly improved ergonomics make work easier and more comfortable – thanks to the excellent accessibility of the slide-in units on guide rails from the operating side. This allows the modules to be slid in and out at shoulder height. There is no longer any need for manual cabling or hose-fitting, and the sheet guide path can be cleaned without removing the dryers. All dryers are operated via CANopen from the Prinect CP2000 Center or from the delivery control panel, which means that there's no more walking back and forth to a display on the dryer cabinet.

The DryStar advanced software also provides the customer with additional functions such as presetting, delivery preheating and semi-automatic operation.

Reliable drying, even with UV printing

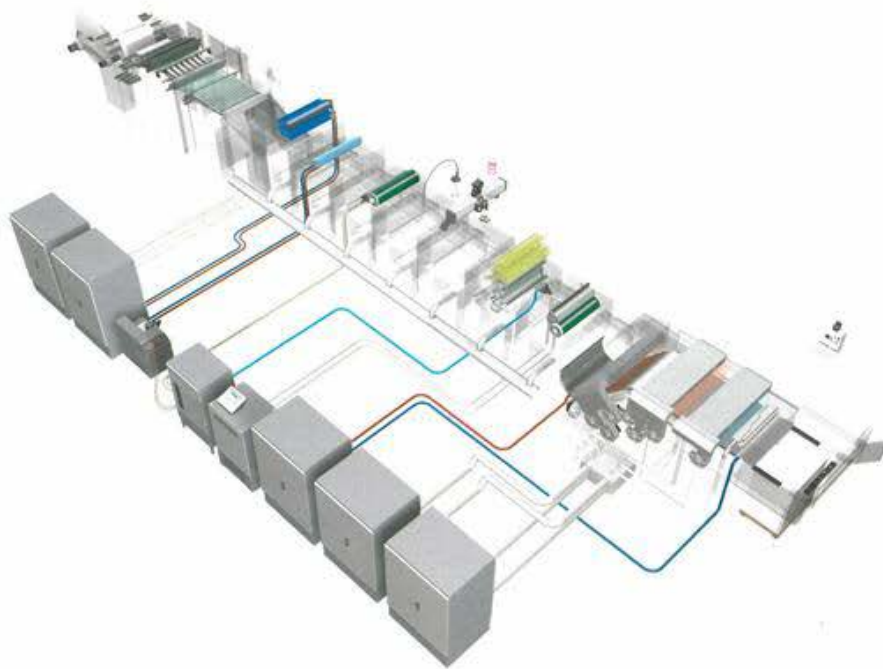
The advantages of the DryStar system – full flexibility and reliable production – are now also available to UV printing. DryStar dryers and UV dryers from selected suppliers are fully compatible with each other. They offer a shared cooling concept and ozone extraction, as well as the option of controlling the UV dryers via the Prinect CP2000 Center.

Innovative round nozzles considerably enhance the efficiency of the coating drying process.



Solutions as Individual as You • Printing presses or peripherals – Heidelberg can provide all the components you need!

With the Star System from Heidelberg, printing press and peripherals are optimally tuned to one another.



Peripherals and the Star System

These days, short setup times, high print quality and maximum productivity are essential qualities to ensure a printshop's success. To achieve this, all the components that go to make up a press must be perfectly coordinated. Heidelberg is the world's first manufacturer to offer printing presses and peripherals from a single source. This means that peripheral devices can be individually tailored to suit your press and your requirements.

The Star System encompasses the complete system solution – including everything from dryer and powder spray devices to the dampening solution supply. All units are developed directly by Heidelberg or in close cooperation with well-known suppliers. Each component is tuned to "its" Speedmaster press. Installation and maintenance are carried out by Heidelberg's renowned service network.

The Star System is true to Heidelberg's motto "everything from a single source" – including the peripherals, which is an economic advantage for you.

Flexible configuration

Making optimum use of available space is very important in a printshop. The flexible configuration options mean that even small printshops can find room for a Speedmaster CD 102. In the future, you'll be able to set up most peripheral cabinets up to 25 m away from the press without loss of performance. And, since the devices can be operated centrally from the Prinect CP2000 Center via CANopen, most of them can also be set up in a separate room – anywhere from your basement to your loft!

Stable pressroom climate thanks to water cooling

One of the most important preconditions for high-quality printing is a stable climate in the pressroom. In the past, the heat given off by peripheral devices was channeled into the pressroom, often causing serious problems with printing. Today, water-cooled peripherals mean that you can ventilate and air-condition your pressroom with optimum results. This setup offers one decisive advantage over air cooling, in that large volumes of air do not have to be moved, cooled, warmed or humidified.

The New Way Forward • Experience a new dimension in flexibility and quality with the Speedmaster CD 102 Duo

Speedmaster CD 102 Duo

The demand for quality print products has been rising for a number of years. You can benefit from this development with the aid of continuously improving technology and a growing choice of special coatings in outstanding quality. To meet these precise needs, Heidelberg is now offering a new configuration of its highly successful Speedmaster CD 102 that supports inline coating and processing in a quality that will satisfy even the most discerning user.

In addition to offset printing, the Speedmaster CD 102 Duo also employs a second printing process both upstream and downstream of the printing units – flexographic printing. It doesn't matter whether you're combining conventional inks and water-based coatings or UV inks and UV coatings. The new Flexokit chambered blade system even accommodates the processing of Metalure and Iriodin products.

Exceptional flexibility and the inline production of finished products set new standards in terms of both cost-effectiveness and quality. This will set you apart from your competitors and enable you to open up new markets without having to employ other processes such as gravure.

The benefits for label applications

- Just-in-time delivery thanks to inline coating and processing
- Open up new markets, e.g. using water-based Metalure inks or thermochromic inks
- These days, using water-based Metalure inks in metallic silver or gold in offset printing achieves quality comparable to low-cost aluminized materials
- Cut costs, since only a single pass is required
- Further cost savings by replacing gravure printing

The benefits for packaging applications

- Inline coating and processing saves time and money
- Replace expensive, inflexible offline printing processes with specialist applications whose quality can be immediately assessed on press

The benefits for commercial applications

- Sets you apart from your competitors, since it allows you to offer high-quality inline coating and processing
- Inline production reduces the number of passes needed, thereby cutting costs and saving time
- Quality is enhanced, since all inline operations can be handled in a single pass

A new dimension in inline coating –
the Speedmaster CD 102 Duo



Cost-Effectiveness at the Touch of a Button •

With the Speedmaster CD 102, Heidelberg helps cutting-edge printshops evolve from pure production facilities to service providers.

The future lies in service

These days, cutting-edge printshops are a lot more than just production operations. As all-round service providers, it's natural for them to offer their customers constant, reproducible quality with minimum delivery times and maximum flexibility and reliability. Doing this while at the same time keeping costs under control presents printshops with serious challenges. Heidelberg helps cope with these challenges by providing carefully tuned modules for individual production processes and complete workflows.

Speedmaster CD 102 – Reliable and productive

Because of the need for high added value, the printing process continues to play a decisive role. The Speedmaster series from Heidelberg is today a watchword in top-quality, productivity and user-friendliness – an investment on which you can really rely.

In the 28" (70 x 100 cm) format class, we've managed to make the Speedmaster CD 102 even more attractive. For example, with the new Preset Plus Feeder and the new Preset Plus Delivery, we've met the demands of our customers who want to be able to process a wide range of different printing stocks reliably and at high speed. Numerous preset options ensure minimum makeready times, whether you're using thin paper or card. When it comes to repeat jobs or the ever more common partial or preliminary runs, the ability to store settings ensures reproducible performance – almost at the touch of a button.

Cost-effectiveness – automatically

There are also other automation components, such as parallel-running washup procedures, JDF/CIP4 prepress connection, intelligent preinking programs and Prinect Auto Register, which help speed up job changes. Still unbeatable are the ink fountain liners, which allow fast color changes.

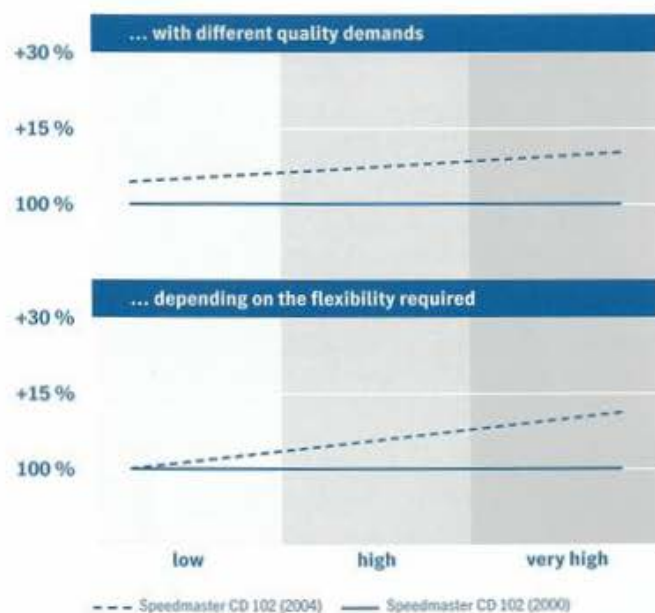
Greater speed for greater success

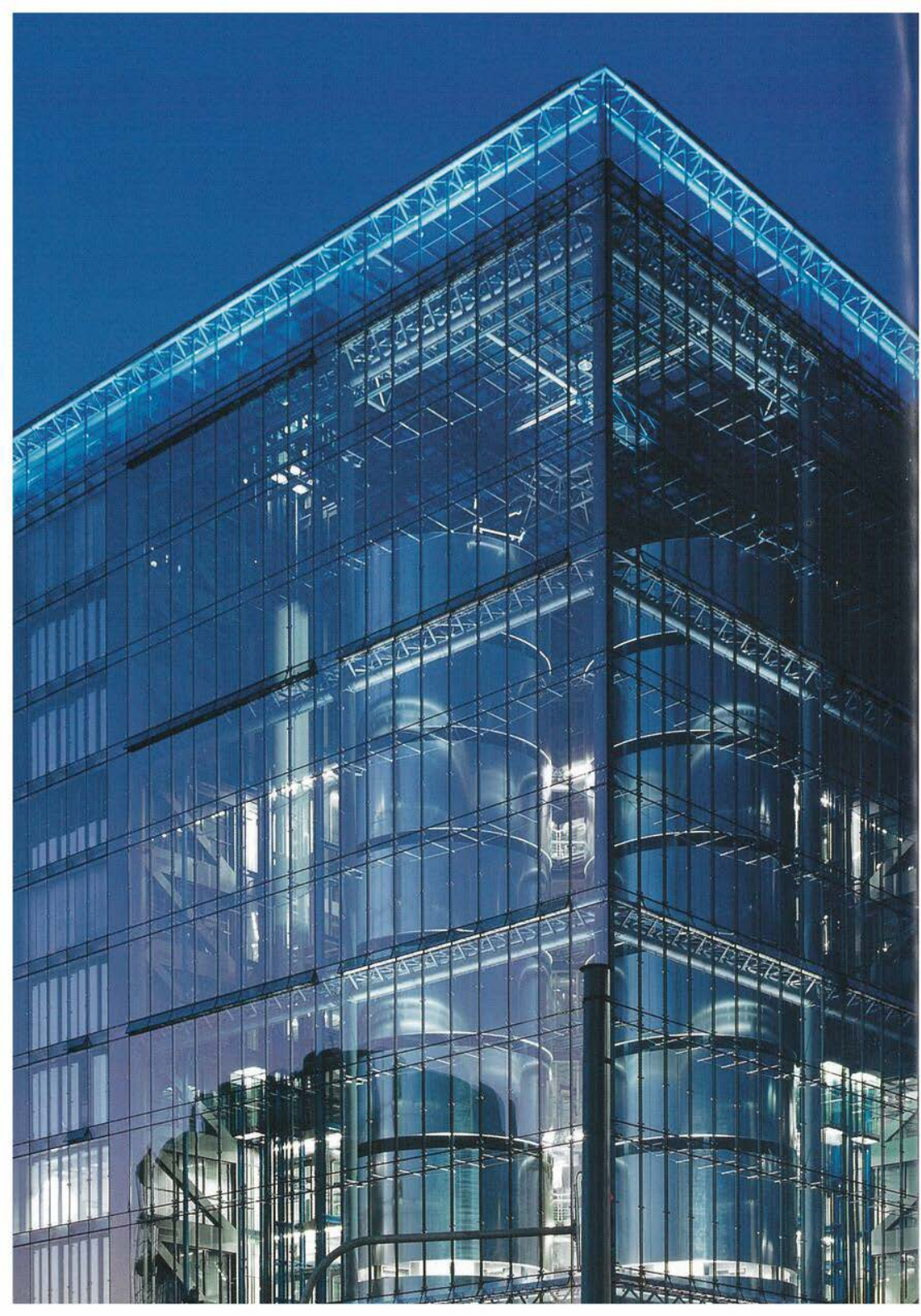
Extensive speed-compensated functions ranging from the inking unit/dampening system through to the gripper opening cam on the delivery facilitate high print speeds without overtaxing the operator, even with small print runs.

Excellent reliability of individual components, Heidelberg's own electronic components, the comprehensive Star peripherals system and a unique service network all guarantee high press availability.

The Speedmaster CD 102 provides you with a production tool which combines high productivity with outstanding print quality – decisive factors when it comes to satisfying your customers and motivating your employees.

Productivity increase





Heidelberg understands its customers' needs •

We employ innovative technologies to drive progress in the print media industry.

Only Heidelberg supplies genuinely integrated, open solutions to the print media industry. From prepress data management all the way to finishing, we deliver forward-looking technology for every stage of the production process. Heidelberg's software and services help customers optimize processes and print quality. We also sell consumables in many countries to enable customers to consistently achieve best results and reliable production.

We understand that our customers' profitability depends on optimizing two factors: equipment and overall workflow. That is why we developed Prinect, a seamless workflow management system that gives printers greater efficiency and transparency to speed job turnaround.

Extensive training offerings round out the Heidelberg portfolio of solutions. Our Print Media Academy, an international forum for communication and industry knowledge, with branches around the world, offers management seminars and technically oriented product training.

With 250 customer centers around the globe, Heidelberg operates the print media industry's most extensive service network. Our services cover the entire workflow, and high-quality original Heidelberg Service Parts are delivered quickly to destinations anywhere in the world.

Left page: Print Media Academy, Heidelberg

This page, below left: World Logistics Center, Wiesloch; below right: Heidelberg Speedmaster



Modular Solutions from Heidelberg

Prinect is Heidelberg's seamless workflow management system. It integrates and optimizes work processes in printing operations – from management to production and from prepress to finishing.

Prinect Prinance

Prinect Prinance – the professional Management Information System for printing companies – supports all steps from estimating through job handling to invoicing and follow-up costing. Thanks to open interfaces with other Prinect products, Prinect Prinance enables seamless process integration. It bundles the information flow to production and back. This greatly supports the efforts needed for cultivating and extending customer relationships, and for boosting the efficiency and effectiveness of costing, production preparations and planning, job handling, and decision-making at the management level.

Prinect Data Control

Prinect Data Control is the ultimate control system for networked production. Prinect Data Control lets the production manager keep tabs on everything – by clearly depicting all connected machines and their

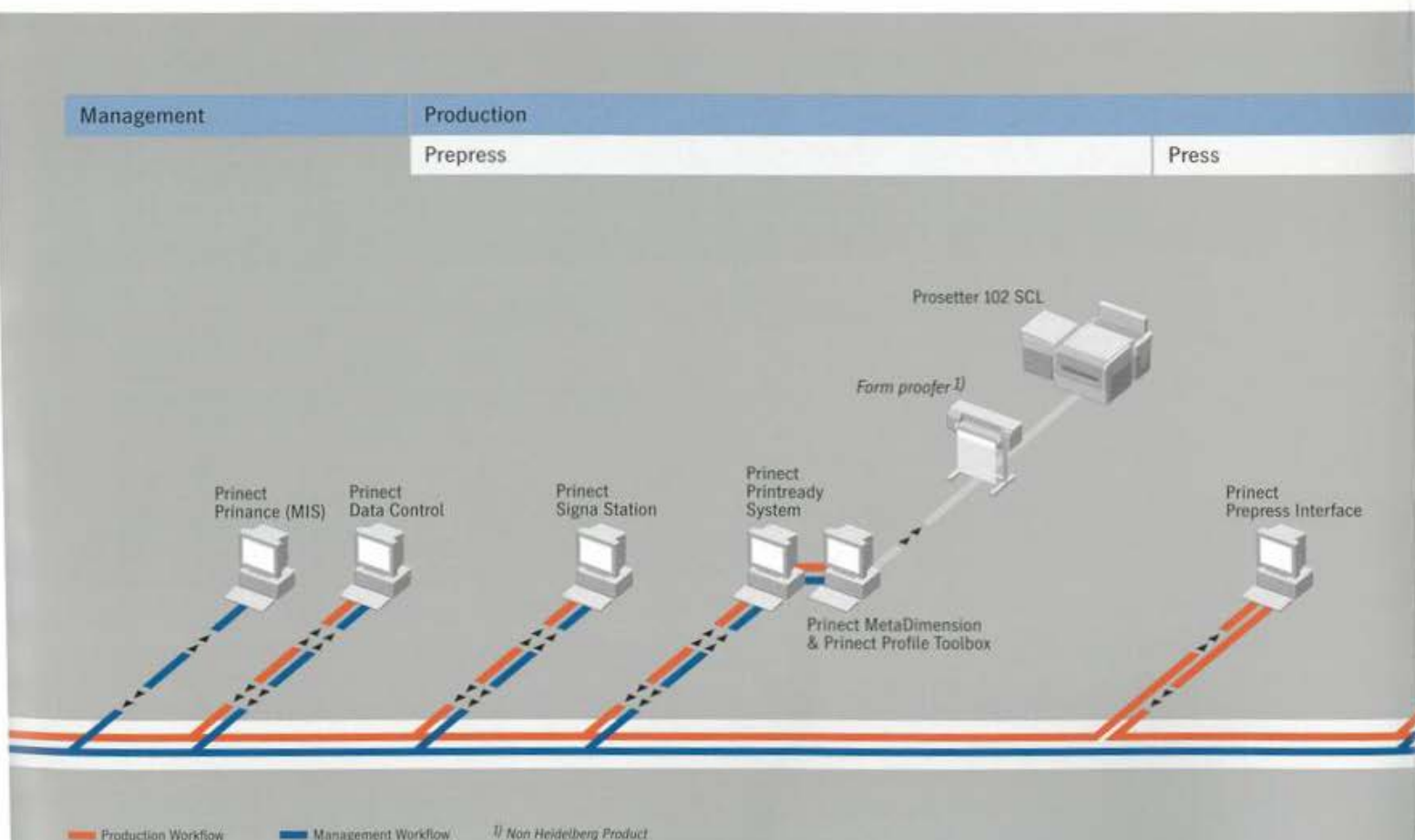
momentary operating states, as well as the progress made in handling each job and the remaining steps. As a result, you know exactly where each job is at all times and how much progress has been made toward completing it. This also lets you identify and take advantage of available capacities, based on up-to-the-minute information.

Prinect Printready System

The workflow system for your prepress production line. The Prinect Printready System™ enables you to work with a flexible, transparent, safe and automated workflow completely based on PDF and JDF.

Prinect Meta Dimension

This RIP and workflow solution from Heidelberg significantly enhances the productivity of PDF workflows: with files that are smaller and easier to manage, improved stability, and unrivaled speed.



Prosetter 102

The Prosetter® 102/F 102 with Violet Technology is ideal for getting started in CTP production in eight-page format. Together with the Single Cassette Loader or the Multi Cassette Loader for fully automated plate feed, it achieves unprecedented quality, reliability, and speed. And that at an attractively low price with minimal space requirements.

Prinect Prepress Interface

The interface between prepress, press and postpress that lets you boost productivity and optimize workflow by providing ink key setting for the Speedmaster, digital reference sheets for Prinect Image Control, register presetting for Prinect Auto Register and position marks for postpress equipment.

Prinect AutoRegister

Prinect Auto Register is the first and only inline measurement and control system for sheetfed presses. It enables fast, precise register measurement while the press is running. What's more, Prinect Auto Register ensures fully automatic register-true setting right from the first pull, plus continuous monitoring and correction of registration during the pressrun.

Prinect CP2000 Center

The Prinect CP2000 Center opens up a new dimension of performance in press operation. The ergonomic design of the Prinect CP2000 Center creates an optimum work area for the press operator. All settings and momentary press responses are displayed and adjustments made via a common interface: a height-and angle-adjustable color touchscreen display. The next step, also enabled by the Prinect CP2000 Center, is efficient integration of Speedmaster presses into your print shop's workflow.

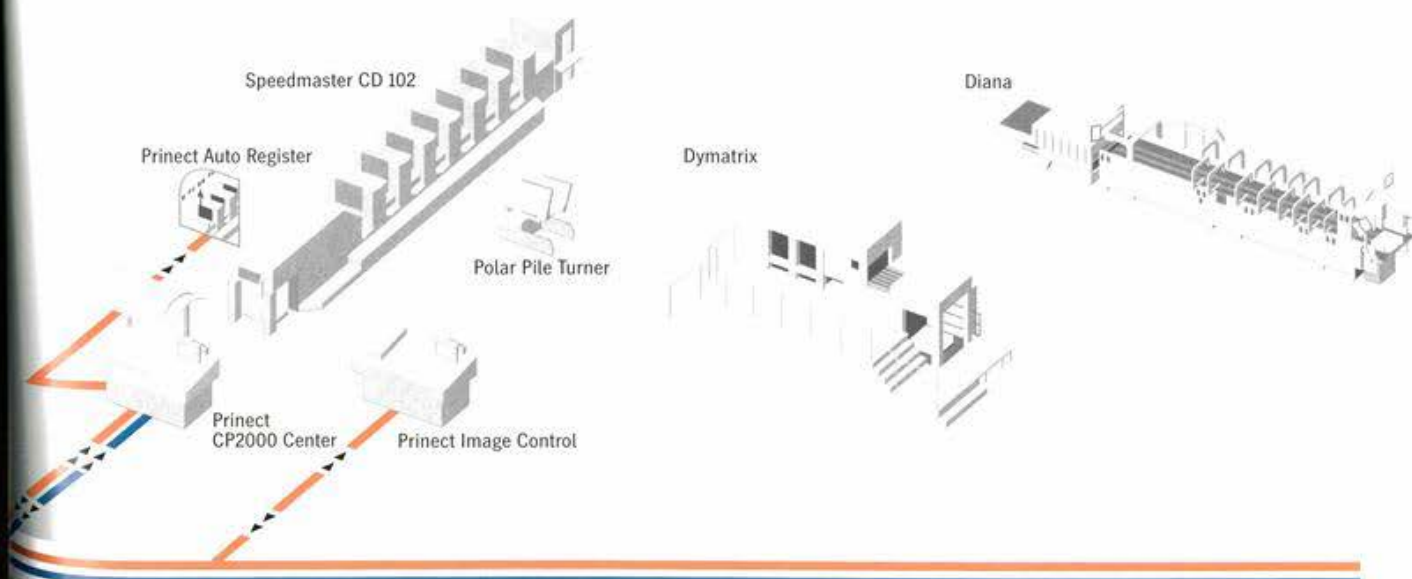
Dymatrix 105 Pro

A high-speed system for demanding applications, featuring high productivity and a broad range of applications. A variety of options permit customized diecutting.

Diana Pro 114

Professional, cost-effective, flexible, and easy to use: universal, high-speed modular folding carton gluers for reliable processing of a virtually endless range of carton types and sizes.

Postpress



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Left page: Print Media Academy, Heidelberg

This page, below left: World Logistics Center, Wiesloch; below right: Heidelberg Speedmaster



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