



## Speedmaster CD 74

The future-oriented press for top quality and versatility in medium size.

**HEIDELBERG**



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## The Speedmaster CD 74 • Up to 18,000 sheets per hour combined with exceptional versatility.



With up to 18,000 sheets per hour in straight printing the Speedmaster CD 74 is the ideal machine for highest productivity requirements.

Whether you print commercial jobs, labels or high-quality folding boxes, the success or failure of your business depends on its speed and flexibility. As a result of increasing differentiation of products and target groups, runs are getting shorter and job changes more frequent. This is where medium-size presses really offer cost advantages – they're quick to set up and provide stable production conditions. Not least the Speedmaster® CD 74 which is setting a new performance class in its format.

Automated makeready and easy-to-control sheet travel make the Speedmaster CD 74 an extremely user-friendly press for a broad range of substrates from flimsy papers to stiff board and plastic sheets.

Industrial packaging printers running multiple shifts have a particular need for a robust press able to handle long runs at top speed.

That is why the Speedmaster CD 74 straight-printing models are optionally available with 18,000 sheets per hour to allow a fast and cost-effective production of long runs.

The Speedmaster CD 74 is available in two formats: C-format 53 cm x 74 cm (20.87 in x 29.13 in) and F-format 60.5 cm x 74 cm (23.82 in x 29.13 in), with or without perfecting device. Perfector models from four to ten colors, with optional coating system and extended delivery, offer you new sales opportunities in medium-size applications. Now you can produce exceptional print products highly productively and cost-effectively whatever your order profile.



# Prinect • Digital integration of the Speedmaster CD 74 into your production and business processes maximizes your efficiency.

## **Prinect** *connectable*

An investment in a Speedmaster CD 74 is also an investment in Prinect and a sound future.

Prinect is a modular workflow management system whose components can be combined into an integrated workflow stretching from management to production and from prepress and press to postpress.

The finely tuned interaction of the various Prinect components boosts the efficiency of production workflows, offers greater process transparency and thus accelerates the entire job flow. Prinect thus makes a major contribution to helping companies realize their full potential for rationalization and optimization, thus enhancing printshop performance and boosting profit margins.

The Prinect CP2000 Center puts high-tech squarely in your hands.



## **Prinect CP2000 Center - productivity at the push of a button**

The Prinect CP2000 Center press control system combines productivity and user-friendliness at the highest level.

All Speedmaster CD 74 functions are controlled centrally via the touchscreen monitor. The color display can be adjusted in height and tilt. Its ergonomic design creates an optimum work area for reaching straightforward decisions and user-friendly operation. Important press functions, e.g. remote control of color and register, automatic washup devices and control of Star components using CANopen technology are quickly monitored on the Prinect CP2000 Center and are operated quickly and precisely.

The Color Fast Solution software package accelerates production after makeready and interruptions and ensures greater reliability. When there are sizeable changes in the volume of ink applied, automatic follow-up and adjustment of dampening solution quantities achieves a constant ink-water balance and stable print quality.

## **Integration into the networked printshop**

The Speedmaster CD 74 can be integrated seamlessly into your printshop's automated workflows using additional Prinect CP2000 Center software modules.

## **Increased productivity**

The ever shorter runs typical of production today mean the proportion of time devoted to makeready is increasing. The prime priority is therefore to increase productivity by reducing job throughput times. The first step towards achieving an integrated workflow is ensuring the availability of presetting data. The Prinect MetaDimension® RIP supplies the Speedmaster CD 74 with ink zone presettings via the Prinect Prepress Interface. The printer at the Prinect CP2000 Center receives the required PPF files and a preview online. This ensures the right job is selected. While the current job is still being printed, the next one can be prepared for production.

With its unique “Plate on Demand” function, printers are able to automatically image a new plate without any special prepress knowledge simply by pressing a key on the Prinect CP2000 Center. This means that production can continue even if prepress is unmanned during the night shift and a plate is defective.

### Constant print quality

Achieving true color is always a key challenge. Proof and print need to be matched quickly. And it's important to respond immediately to any fluctuations in color. Prinect supports powerful calibration, profile generation and monitoring modules to ensure fast inking-up.

To optimize press presetting, the Prinect CP2000 Center allows you to adapt the ink zone openings of the printing units to the specific production parameters. The special feature of the Prinect solution: The calculation of the correct ink presetting takes into account both the ink coverage values and the influence of the paper, ink and coloring standard. Consequently, the characteristic curve is selected and a result close to the OK sheet is achieved even after the first proof.

The Prinect Image Control® color measuring system serves as an interface between prepress and press and assists with setup and monitoring of the production run. The current job is always compared to the reference value. If the dot gain changes as a result of a new ink, this is identified during the measurement process and this information is immediately sent to prepress in order to adapt characteristic curves and profiles. This matches the next set of plates to the changed printing conditions. For the time, proof, plate and print are integrated in an end-to-end color cycle that leads reliably to the desired coloring.

### Greater transparency

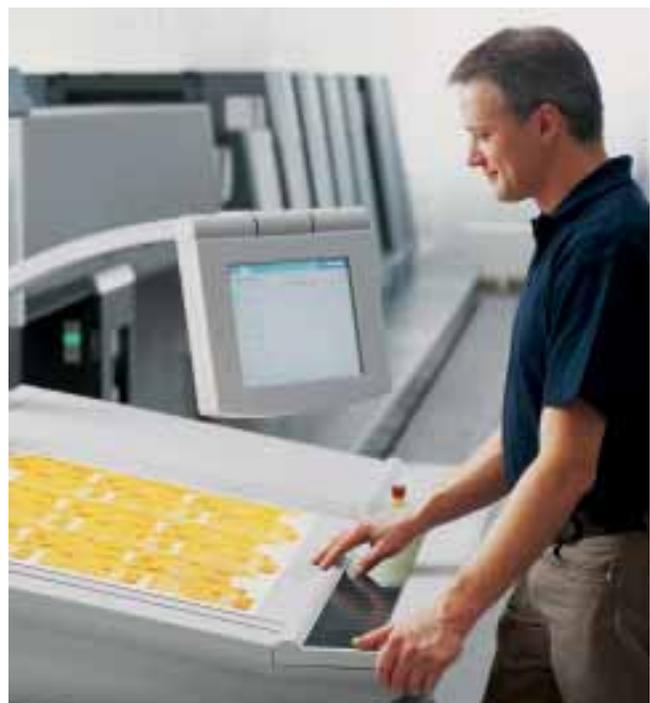
The Prinect CP2000 Center allows you to integrate the press into the printshop's administrative and business management processes – from costing and planning to logging of production data.

Thanks to integration with the Prinect Pressroom Manager, the press operator is provided with job-related data such as job number, customer name and run length in the form of an electronic job ticket. This information remains consistent throughout the business and production processes, thereby eliminating the need to make multiple entries, a process that is both error-prone and time-consuming.

You thus have a complete overview of the current job status during all phases of job processing. At all times you can identify the job's progress and status in the workflow. This gives you greater transparency in real time, thus enabling you to respond quickly to changes. The result – enhanced customer relationship management thanks to rapid response times, greater precision and faster information on delivery times and job status.

Prinect also ensures effective cost control. Each job is evaluated, and the results are presented in a clear and simple format. This gives you reliable figures, so that you can measure your profitability at all times – data that is invaluable for successfully managing a printshop.

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



# The Preset Feeder • Easier, faster, more reliable job changes and sheet travel.

The Speedmaster CD 74 is equipped with a generously configured Preset feeder as standard, thereby ensuring absolute quality from the outset.

## Innovative suction head

The innovative suction head technology of the Speedmaster CD 74 combines straightforward operation with minimal changeover input and exceptional stability in the production run. It also features exceptional design and only a small number of setting elements. The fact that the air supply has been integrated into the suction head means there is no need for a complex tubing system, thereby giving the user an optimum overview. This boosts production speed and adds stability.

After the printing stock and formats for the particular job have been entered on the Prinect CP2000 Center, the suction head and all other sheet guide elements adjust

precisely to the new sheet size. The blast air for the carrier-air and sheet-separation blowers is set to the new printing stock by characteristic curves and with speed compensation. Use of the patented lifting sucker concept obviates the need for any further settings. This ensures that even piles that are less exact can be processed quickly and reliably.

Pile scanning sensors and side lays can be adjusted automatically and flexibly to the paper size. Automatic functions keep the pile centered and reliably control sheet feeding.

The optional pile height sensor regulates the optimum height between the suction head and the front edge of the pile. Settings are kept to a minimum even with critical printing stock thicknesses.

The supply of blast air to the suction head is speed-compensated and is controlled by characteristic curves governed by the printing stock thickness.





The innovative suction head combines straightforward operation with minimal changeover.

### Central suction tape

The central suction tape guides all stocks dependably to the front and side lays without a rake, thus eliminating the need to make additional adjustments. The side lay is pneumatically controlled and very gentle on the sheets. To meet the special requirements of printing on board and to keep the latter as flat as possible, sheets are only subjected to minimal bending in the feeder. The front lay guard automatically adjusts to thicker, stiff materials.

### Sheet monitoring

All settings are based on the paper thicknesses and size entered on the Prinect CP2000 Center. Corrections to the sheet arrival time are carried out in the production run without any need for manual intervention. The stream control and the double sheet detector integrated into the pull lay ensure that multiple sheets are detected reliably.

The feeder of the Speedmaster CD 74 is clearly organized and quick to set up.



## The Printing Unit • Exceptional print quality and high value retention.



The rapid-response inking units of the Speedmaster CD 74 deliver the OK sheet quickly and reliably.

The printing units of the Speedmaster CD 74 deliver high manufacturing precision, one of the key features of Heidelberg presses. They are very quiet in operation and ensure exceptionally high quality results. Double-size impression cylinders are ideal for printing on stiffer stocks. All plate, blanket, and impression cylinders are chromium-plated as standard, thereby ensuring the presses maintain a high resale value.

Whether settings relate to washup programs, inking zones or register, all these printing unit functions can be performed easily via the ergonomic touchscreen of the Prinect CP2000 Center.

### **Inking and dampening unit**

Costs are cut first and foremost by reductions in make-ready times and avoiding waste. This is supported by the perfect interplay of the fast-response inking units of the Speedmaster CD 74 and the Color Fast Solution software.

The press responds immediately to inking and dampening changes, thereby delivering the OK sheet in the absolute minimum of time.

Because the Speedmaster CD 74 was specially developed for high-quality commercial and packaging printing, Heidelberg's engineers were unwilling to compromise where print quality and the stability of ink feed are concerned.

The geometric conditions in the inking unit are exceptional – the movements of the ink distributors help ensure consistent inking. At the same time, the system has the flexibility to adapt to different situations. Standard features of the Speedmaster CD 74 include the short-path inking unit option for forms with particularly light inking, a “zero oscillation function”, and separation of roller groups during stoppages to cut down on waste when resuming production.

The speed-compensated Alcolor® continuous-film dampening system delivers a stable ink-water balance. The even dampening film ensures consistently high print quality over the entire run. The Vario function, which is standard for Speedmaster CD 74 models, removes dirt particles from the printing plate.

### Automatic washup devices

The standard features of the Speedmaster CD 74 also include programmable washup devices for the blanket cylinder and inking unit. Programmable impression cylinder washup devices are additionally available. The blanket and impression cylinders each have their own system complete with washup cloth and can therefore be washed simultaneously. Automatic forward and backward inching of the cloth rolls enables cost-effective use of the washup cloth and excellent washing results. The particularly maintenance-friendly washup devices are easy to reach and thereby maintain productivity at a high level.

Slide-in systems for blanket and impression cylinder washup devices



## Smart Sheet Travel • The innovative AirTransfer technology. For fast, reliable sheet travel.



The AirTransfer system with Venturi technology ensures top print quality.

It is remarkably quick and easy to set sheet travel on the Speedmaster CD 74. The process is fully automatic and speed-dependent. Stock thickness and sheet size are entered on the Prinect CP2000 Center. This information is used to define virtually all the parameters for air-supported sheet guidance – from the suction head and AirTransfer system between the printing units to the delivery – based on the printing stock thickness.

The automatic sheet arrival control monitors the optimum time for the sheet to arrive at the front lays. The front lay guard is moved to the right height and angle for the particular stock thickness. The AirTransfer system, featuring patented Venturi technology, optimally transfers sheets between the double-size impression cylinders of the printing units. Patented sheet guide plates in the delivery guide the printed sheet gently to the delivery pile on a cushion of air. And that's not all, the elements of the sheet brake in the delivery can be adjusted laterally using a motor drive while the press is running.

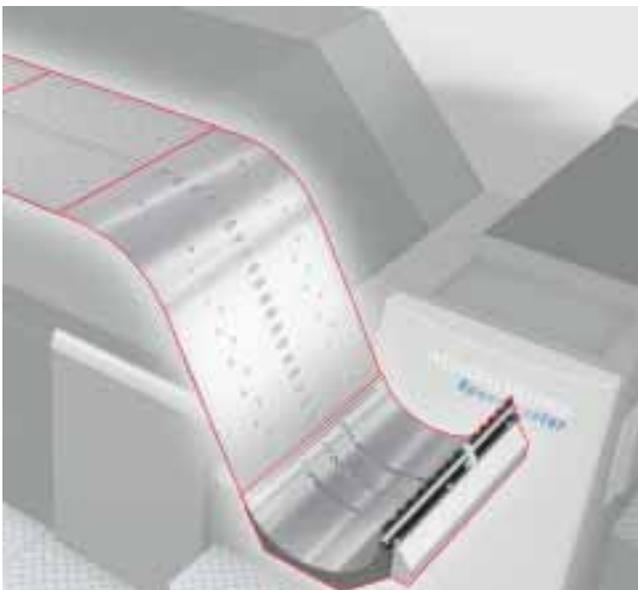


Variable AirTransfer system with swing-out drum shells.

#### Sheet distance control

The automatic sheet distance control ensures production remains free of marks and scratches for even the trickiest printing stocks and motifs in perfecting mode. The ultrasonic sensor integrated in the delivery of the long perfectors keeps the sheet at the optimum distance to the sheet guide plate. It takes into account various printing stock thicknesses, volumes of ink and changing production speeds – giving you top quality and productivity even with 5/5 print products.

Sheet guide plates with patented Venturi technology.



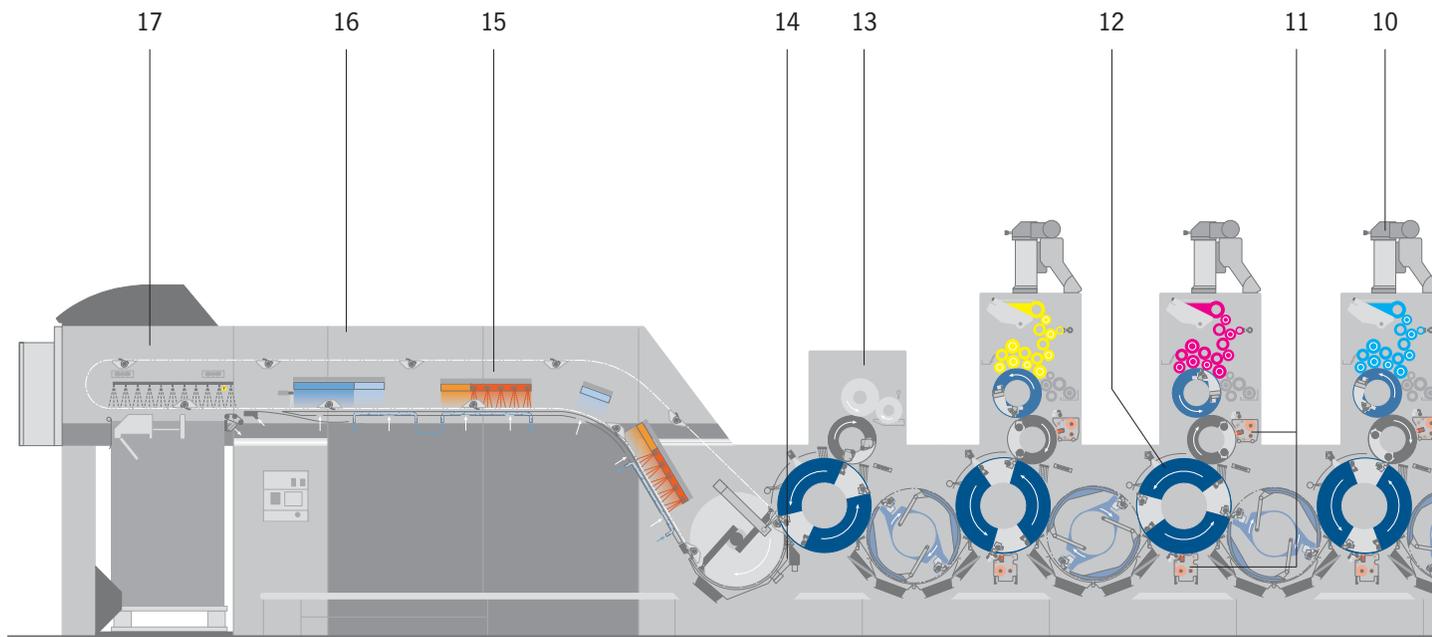
Integrated ultrasonic sensor for sheet distance control.



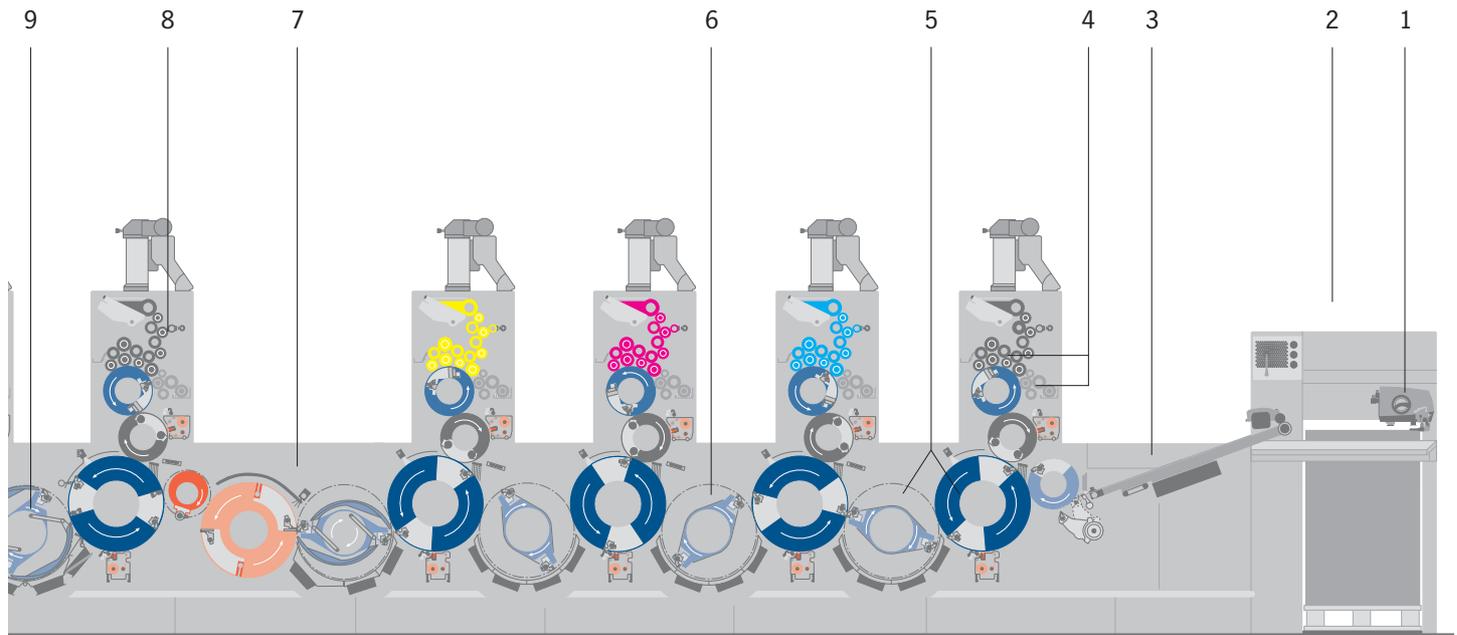
# Speedmaster CD 74 – the technology in detail

The innovative technology and unrivaled flexibility of the Speedmaster CD 74 make it the medium-size press of the future. The perfecting model is available as a four- to ten-

color press. It can also be supplied with coating system, extended delivery and UV technology.



- 1 The new suction head delivering reduced setup times through simplified, automatic setting is available with a pile-height sensor.
- 2 The Preset feeder adjusts automatically to format and printing stock changes, and minimizes makeready times. Automatic sheet arrival control and misaligned sheet correction ensure reliable sheet travel.
- 3 The feed table with central suction tape enables fast job changes with minimal user input.
- 4 The inking and dampening units of the Speedmaster CD 74 respond immediately to inking and dampening changes, thanks to Color Fast Solution software.
- 5 The double-size impression cylinders together with the AirTransfer system ensure reliable sheet travel with top print quality and maximum press speed.
- 6 Sheet travel with the AirTransfer system between the printing units adjusts automatically to the printing stock thicknesses entered on the Prinect CP2000 Center.
- 7 The convertible perfecting device delivers the high perfecting quality expected of a Speedmaster, and does so for both thin papers and thick, stiff materials.
- 8 The short-path inking mode facilitates printing of motifs with low ink consumption.
- 9 The variable AirTransfer system in between the printing units downstream of the perfecting device has drum shells that fold out automatically to allow fast and effective adjustment to the relevant printing requirements.



- 10 The InkLine/InkLine Direct ink feed system from Heidelberg for automatically filling and monitoring the level of ink in the ink fountain.
- 11 Washup devices for blanket and impression cylinders cut makeready times.
- 12 The impression cylinders downstream of the perfecting device are equipped with PerfectJacket Plus for maximum perfecting quality.
- 13 The coating system has remotely adjustable lateral, circumferential and diagonal registers to save time and reduce startup waste. It can also be fitted with a chamber doctor blade system.

- 14 The air-supported sprocket wheel shaft ensures reliable sheet travel, even with demanding print jobs. A sheet distance control with ultrasonic sensors ensures - on long perfectors - that production is free of markings and scratches.
- 15 The DryStar dryer systems with infrared, hot-air and circulating-air modules are optimally tuned to sheet travel.
- 16 The extended delivery makes for optimum drying. The slide-in dryers are very easy to clean. The sheets can be monitored visually during production.
- 17 The Preset delivery ensures precise pile building at maximum press speed. The sheet brake has remotely adjustable brake elements.

## Press configurations for Speedmaster CD 74

	CD 74-4 CD 74-4-P	CD 74-5 CD 74-5-P	CD 74-6 CD 74-6-P	CD 74-8 CD 74-8-P	CD 74-10 CD 74-10-P
<b>Equipment</b>					
C-format 530 mm x 740 mm (20.87 in x 29.13 in)	•	•	•	•	•
F-format 605 mm x 740 mm (23.82 in x 29.13 in)	•	•	•	•	•
Prinect CP2000 Center with remote ink control	•	•	•	•	•
Prinect Image Control	◦	◦	◦	◦	◦
Preset feeder	•	•	•	•	•
Non-stop device for feeder and/or delivery	◦	◦	◦	◦	◦
Add-on preloading device	◦	◦	◦	◦	◦
Alcolor Vario continuous dampening system	•	•	•	•	•
HydroStar* central dampening solution supply	•	•	•		
CombiStar combination unit for dampening solution preparation and inking unit temperature control*	◦	◦	◦	•	•
InkLine*/InkLine Direct* – automated ink feed system	◦	◦	◦	◦	◦
Program-controlled inking roller washup device	•	•	•	•	•
Autoplate	•	•	•	•	•
Prinect Auto Register	◦	◦	◦	◦	◦
Perfecting device with automatic changeover**	•	•	•	•	•
TransferJacket Plus for reversing drums**/drum shells**	•	•	•	•	•
PerfectJacket Plus, exchangeable impression cylinder jackets after the perfecting device**	•	•	•	•	•
Program-controlled blanket washup device	•	•	•	•	•
Program-controlled impression cylinder washup device	◦	◦	◦	◦	◦
AirTransfer, air-supported sheet guidance between the printing units	•	•	•	•	•
Variable AirTransfer, air-supported sheet guidance with fold-out drum shells between the printing units after the perfecting device**	•	•	•	•	•
Preset high-pile delivery with slide-in dryer option	•	•	•	•	•
DryStar Ink*	◦	◦	◦	◦	◦
StaticStar (anti-static device)	◦	◦	◦	◦	◦

◦ Optional • Standard \* Optionally available as CANopen version \*\* On perfector presses  
The combination of individual features may differ from country to country.



Since 1954, the Industrie Forum Hannover (Deutschland) has been presenting products with the annual iF design award. This competition is one of the most important design contests in the world, receiving over 1,800 entries from 30 countries each year. The international top designers on the panel of judges don't just select the prizewinners – they also put their names behind the particular status of iF and the iF label, which is a recognized quality symbol.



Designpreis der  
Bundesrepublik  
Deutschland  
**2002 Anerkennung**

The Federal Award for Product Design is the most prestigious German design order, and is presented every two years by Rat für Formgebung/German Design Council on behalf of the Federal Ministry of Economics and Technology. In order to receive a nomination, a product must already have won a German design award. Awards go to products which are outstanding because of their design idea, utility, long-lasting performance and intelligent overall concept.

## Coating system

	CD 74-4+L CD 74-4-P+L	CD 74-5+L CD 74-5-P+L	CD 74-6+L CD 74-6-P+L	CD 74-8+L CD 74-8-P+L	CD 74-10+L CD 74-10-P+L
<b>Equipment</b>					
Two-roller coating system	•	•	•	•	•
Chamber doctor blade system with one screen roller	◦	◦	◦	◦	◦
Combi coating unit (two-roller and chamber doctor blade system)	◦	◦	◦	◦	◦
Remotely adjustable lateral, circumferential and diagonal registers	•	•	•	•	•
Standard delivery with 1 slide-in dryer option	•	•	•	•	•
Extended delivery (160 cm/63.0 in) with 3 slide-in dryer options	◦	◦	◦	◦	◦
Extended delivery (240 cm/94.5 in) with 4 slide-in dryer options, only for straight printing models in combination with UV	◦	◦	◦	◦	◦
DryStar Combination for extended delivery* (standard with double-coating systems)	◦	◦	◦	◦	◦
Double-coating system (two coating units with one intermediate unit) with DryStar Combination**	◦	◦	◦	◦	◦

◦ Option • Standard \* Optionally available as CANopen version \*\* Not in the case of perfector presses  
The combination of individual features may differ from country to country.

## Speedmaster CD 74

### Press

Width	3.31 m (130.47 in)
Width of press and peripherals with open doors	4.62 m (181.89 in)
Height (without InkLine)	1.94 m (76.38 in)
Height (raised press without InkLine)	2.49 m (98.03 in)

### Sheet

Min. sheet size in straight printing	210 mm x 350 mm (8.27 in x 13.78 in)
Min. sheet size in perfecting printing F-format	340 mm x 350 mm (13.39 in x 13.78 in)
Min. sheet size in perfecting printing C-format	300 mm x 350 mm (11.81 in x 13.78 in)
Max. sheet size F-format	605 mm x 740 mm (23.82 in x 29.13 in)
Max. sheet size C-format	530 mm x 740 mm (20.87 in x 29.13 in)
Max. print format F-format	585 mm x 740 mm (23.03 in x 29.13 in)
Max. print format C-format	510 mm x 740 mm (20.08 in x 29.13 in)
Printing stock thickness	0.03 mm – 0.8 mm (0.0012 in – 0.031 in)
Gripper margin	8 mm – 10 mm (0.31 in – 0.39 in)

### Plate cylinder

Undercut plate cylinder	0.15 mm (0.006 in)
Distance from leading edge of plate to start of printing, F-format	43 mm (1.69 in)
Distance from leading edge of plate to start of printing, C-format	59.5 mm (2.34 in)

### Coating form cylinder

Coating blanket	700 mm x 772 mm (27.56 in x 30.39 in)
Max. coating area	585 mm x 740 mm (23.03 in x 29.13 in)
Coating form cylinder undercut	3.2 mm (0.13 in)
Distance from leading edge of coating plate to start of coating	47.6 mm (1.87 in)

### Plates

Plate size F-format	660 mm x 745 mm (25.98 in x 29.33 in)
Plate size C-format	605 mm x 745 mm (23.82 in x 29.33 in)
Coating plate size F-format	680 mm x 750 mm (26.77 in x 29.53 in)
Coating plate size C-format	680 mm x 750 mm (26.77 in x 29.53 in)
Thickness	0.3 mm (0.012 in)

### Blanket cylinder

Blanket cylinder undercut	2.3 mm (0.091 in)
Length x width of (metal-edged) blanket	700 mm x 772 mm (27.56 in x 30.39 in)
Thickness	1.95 mm (0.077 in)
Size of packing sheet	620 mm x 750 mm (24.41 in x 29.53 in)

### Pile

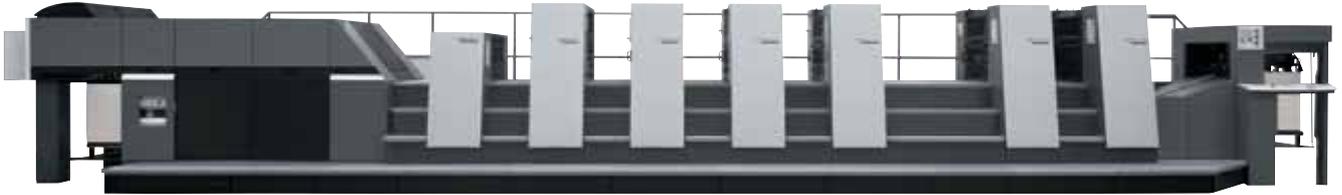
Feeder (gross)	1,120 mm (44.09 in)
Delivery (gross)	1,120 mm (44.09 in)
Raised press (gross)	+ 550 mm (21.65 in)

### Speed

Max. print speed	15,000 sph
Option for straight-printing presses	18,000 sph

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

## Perfecting Device • There are two sides to maximum cost-efficiency: Front and back.



The Speedmaster CD 74 with perfecting device after the second printing unit.

### A new dimension in perfecting printing

The Speedmaster CD 74 is also available with an optional fully automatic convertible perfecting device. A broad spectrum of substrates can be printed in both C- and F-formats – from thin paper to thick board or plastic. What is more, both sides can be printed in a single pass. Giving you high flexibility and productivity.

Perfecting presses are ideal for industrial commercial printshops working with a wide range of printing stocks. Packaging and label applications using perfecting printing are also ideal candidates for these Speedmaster CD 74 models.

### Three-drum perfecting device for smooth sheet travel

Like straight printing models, Speedmaster CD 74 perfectors also need to be flexible in accommodating different printing stocks. The proven sheet-reversing principle from Heidelberg® using three drums was selected as the basis for adapting the perfecting device to thicker printing stocks.

A double-size transfer drum takes the sheet from the impression cylinder. It is fitted with two variable, automatically extendable shells to ensure optimum sheet travel irrespective of the printing stock thickness in question. This drum transfers the sheet to the double-size storage drum.

The proven rotary sucker system tightens the print sheet on the storage drum in both lateral and circumferential directions – and ensures perfect register accuracy on the reverse side too.

Additional suction channels integrated in the middle shells of the storage drum ensure that the sheet is properly supported. They apply suction to the sheet over its entire length, preventing any waves from forming. This new system ensures that even stiff substrates lie flat on the storage drum – an important reason for the high register accuracy of sheet reversal.

The downstream single-size reversing drum is eccentric and key to ensuring top print quality.

Double-size transfer and storage drums and single-size reversing drum.



This convertible perfecting system allows sheets up to 0.8 mm (0.031 in) thick to be processed either in perfecting or in straight printing mode.

This makes the Speedmaster CD 74 with perfecting device not just an outstanding perfecting press, but also one that offers all the usual advantages of a Speedmaster CD 74 in pure straight printing applications. Flexibility and versatility allow full press utilization with a wide range of jobs and printing stocks.

The perfecting device is changed over fully automatically at the push of a button on the Prinect CP2000 Center.

### Variable AirTransfer system

The AirTransfer system is a key feature of Smart Sheet Travel, the virtually contact-, mark- and scratch-free sheet guidance system of the Speedmaster CD 74. The functionality of the AirTransfer system has been augmented in the new perfecting models.

When the press is changed over to perfecting printing, the shells automatically unfold after the perfecting device to support the sheet while it is being transferred from one printing unit to the next. Depending on the printing stock and the motif, the operator simply touches a button on the control panel to fold the shells back up again if they are not required. The shells are also equipped with TransferJacket Plus which prevents ink buildup.

This variable geometry in the sheet transfer process downstream of the perfecting device allows the operator to adapt the press to best suit the printing job, thereby ensuring end-to-end productivity of the very highest level.

### Impression cylinder after the perfecting device

The Speedmaster CD 74 with perfecting device uses PerfectJacket Plus on the impression cylinders to maximize print quality in perfecting mode.

These PerfectJacket Plus consist of high-grade steel with an extremely durable titanium compound and a silicon-based, ink-repellent surface. They enable thicker ink layers in perfecting mode and simplify the cleaning process. These benefits quickly pay dividends with tricky commercial printing jobs.

### Press configurations tailored to practical needs

The Speedmaster CD 74 perfecting models are available in various configurations that enable you to find the precise solution to your needs. This not only gives you the means to create products that are a cut above the rest, but also the flexibility and productivity you need to maximize your cost-effectiveness whatever your job profile.

Speedmaster CD 74 with convertible perfecting device



## Coating and Drying • Stunning results with high-quality, cost-effective print products.

The variable coating system of the Speedmaster CD 74 provides the perfect solution for every coating application, ensuring compelling results every time. DryStar® dryer versions also deliver optimum drying results for a wide range of applications to allow faster finishing, thereby shortening throughput times and boosting productivity.

### A flexible coating system

The coating is applied in the coating unit using the two-roller or chamber doctor blade system. The two systems can be interchanged quickly, making it easy to adjust

them to the job specifications. The chamber doctor blade system is especially good for even application of coatings, e.g. metallic and fine spot coatings.

Screen rollers with different screen rulings can be used to change the amount of coating applied.

For Speedmaster CD 74 coating systems, circumferential, lateral and diagonal registers can be controlled remotely from the Prinect CP2000 Center.

Chamber doctor blade system with screen roller.





The dryer modules in the delivery of the Speedmaster CD 74 are finely tuned to sheet travel and readily accessible for cleaning.

### A harmonized dryer concept

A Speedmaster CD 74 with coating system can be fitted with several delivery versions. Depending on requirements, configurations with extensions of 1.6 m (63.0 in) or 2.4 m (94.5 in) are available. The excellent drying results achieved with the DryStar Combination dryer in the extended delivery, which includes infrared, hot-air and circulated-air modules, lets you capitalize on the press' potential for maximizing productivity. Water-cooled sheet guide plates prevent the delivery from overheating. The dryer modules pull out on the side, making them easily accessible for cleaning. Windows in

the side panel let the operator monitor sheet travel when a dryer is switched on, so corrective action can be taken if any problems arise. For Speedmaster CD 74 models without a coating system, the DryStar Ink infrared dryer is available.

# The Preset Delivery and its Options •

## For maximum output with paper and board.



Preset delivery with 160 cm (63.0 in) extension for optimal drying.

### **The Preset high-pile delivery**

In the Speedmaster CD 74, each sheet printed on both sides is transported to the delivery pile free of any marking or scratches. This is done on a cushion of air created by the patented Venturi sheet guide plates and the carefully tuned DryStar dryers. This means that the delivery can be precisely adjusted to accommodate a wide range of possible printing stocks. Thanks to the optional non-stop or hurdle delivery, the operator can respond flexibly to different types of print run or printing stock. The pile can be removed from the delivery on three sides, which is particularly advantageous in cramped conditions.

The Preset high-pile delivery ensures maximum production speeds and is standard on all Speedmaster CD 74 models. It is fitted with a slot to accommodate a DryStar Ink dryer.

The delivery extended by 1.6 m (63.0 in) is ideal for presses with coating systems and regular inline coating at high production speeds. With three slide-in dryer options, the extended delivery is optimally suited to the DryStar Combination dryer. Additional delivery options featuring infrared, hot-air or UV dryers are available for special applications.



Thanks to the delivery monitor, the printer always has an overview of the key press functions and delivery pile.

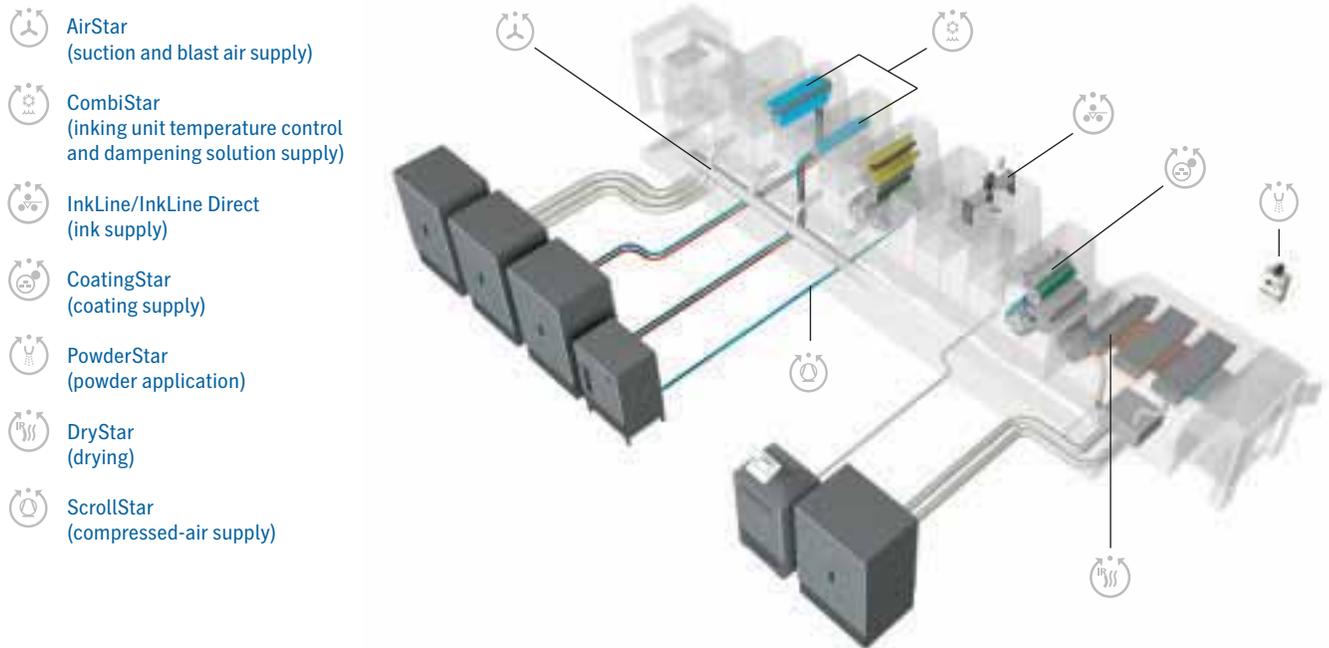
### **Preset functions and delivery monitor**

The delivery is preset on the Prinect CP2000 Center. You only need to enter the sheet size once. The rear stops, sheet joggers and sheet brake are then set automatically. At the press of a button, the elements of the sheet brake can be shifted laterally to the most favorable position in the non-printing area. This function is particularly useful in perfecting mode.

The delivery monitor displays the most important functions in plain view of the operator – from format settings and the vacuum setting for the sheet brake to the dampening solution feed rate. The operator has a direct view of the effects of his settings, and can adjust them at any time. This makes working with the press both easy and efficient.

# Star Gallery • The full range of supplies.

Compact, low maintenance, noise-reduced and perfectly tuned to the Speedmaster CD 74 and its sheet travel.



The Star System reinforces the enormous productivity and the high level of automation of the Speedmaster CD 74.

## Star System from Heidelberg

The Star System from Heidelberg reinforces the immense productivity and high degree of automation of the Speedmaster CD 74. All the peripherals in the above example are individually tuned to the Speedmaster CD 74.

Heidelberg is the world's first manufacturer to offer both printing presses and peripherals from a single source. 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. Installation and maintenance are carried out by Heidelberg's renowned service network.

An intelligent operating concept is part and parcel of a fully-integrated solution. Heidelberg therefore equips many of its Star components with proven, future-focused CANopen technology. This allows the Star units to be

monitored and controlled from the central touchscreen on the Prinect CP2000 Center, which enhances user convenience and also means that there is no longer any need to carry out time-consuming checks on the peripherals themselves. CANopen also allows presetting, logging of operating data, and remote servicing of peripherals.

Detailed information about the individual Star components can be found in our "Speedmaster Star System. Printing in 12-Star Quality" brochure.



# The Speedmaster CD 74 • Your key to greater cost-effectiveness.



One Pass Productivity - the Speedmaster CD 74 with perfecting device allows you to print a broad range of materials on both sides in a single pass.

Heidelberg developed the Speedmaster CD 74 specifically for quality commercial and packaging printers. This is because many jobs are often printed on presses that are simply too big and, consequently, too expensive. Today's markets are moving towards small format print products such as covers, greetings cards and postcards which increasingly are being printed on both sides in four or five colors. Long perfectors quickly pay off thanks to One Pass Productivity.

The Speedmaster CD 74 is setting a new benchmark in its format class in terms of performance and quality. It is the ideal press for handling multi-up jobs or jobs with short to medium runs cost-effectively and minimizing makeready times and waste. Packaging printers benefit by being able to expand their portfolios and raise productivity. The coating system and its inline protective coating gives label printers new options to broaden their portfolio and increase production.

Thanks to the optional perfecting device and extended delivery, the Speedmaster CD 74 achieves unrivalled levels of versatility and productivity, making it highly cost-effective for every print job. It is available in two formats and is therefore perfect for different areas of application and production structures. But that's not all. The Speedmaster CD 74 F-format supports a greater print area to maximize your productivity.

## One Pass Productivity

The Speedmaster CD 74 offers numerous advantages in just a single pass – either with or without perfecting device. Even special print jobs benefit from One Pass Productivity from Heidelberg.

The Speedmaster CD 74 flexibly accommodates a very wide range of printing stocks, thereby ensuring high press utilization. Thanks to its standard preset functions, it can be quickly set up for changing formats. The use of automated solutions make it particularly cost-effective. It saves on time and cuts waste, helping to reduce production costs. This makes the Speedmaster CD 74 the perfect press, in particular for commercial printshops and mixed businesses handling a very wide range of jobs including labels and packaging.

# Inline Finishing • Makes all the difference to your profitability.

The trend towards surface finished print products is becoming increasingly dynamic. Companies wanting to stand out from their competitors must be able to offer services that stand out too. This inevitably increases the requirements that medium-size presses need to satisfy. UV printing in particular offers you a whole spectrum of opportunities to guide your business to a successful future.

The Speedmaster CD 74 allows you to respond to this trend flexibly and cost-effectively. Glossy and metallic effects add value to products in both high-quality commercial printing and the packaging and label printing markets. UV inks/coatings and double-coating technology have a key role to play in this regard.

## New benchmark

Heidelberg can offer users the Speedmaster CD 74 with fully integrated UV technology and DryStar UV dryer. These UV models offer flexible configuration and are

available as both straight-printing and perfecting presses. They can also be equipped with UV interdeck dryers, UV perfecting deck dryer and coating system.

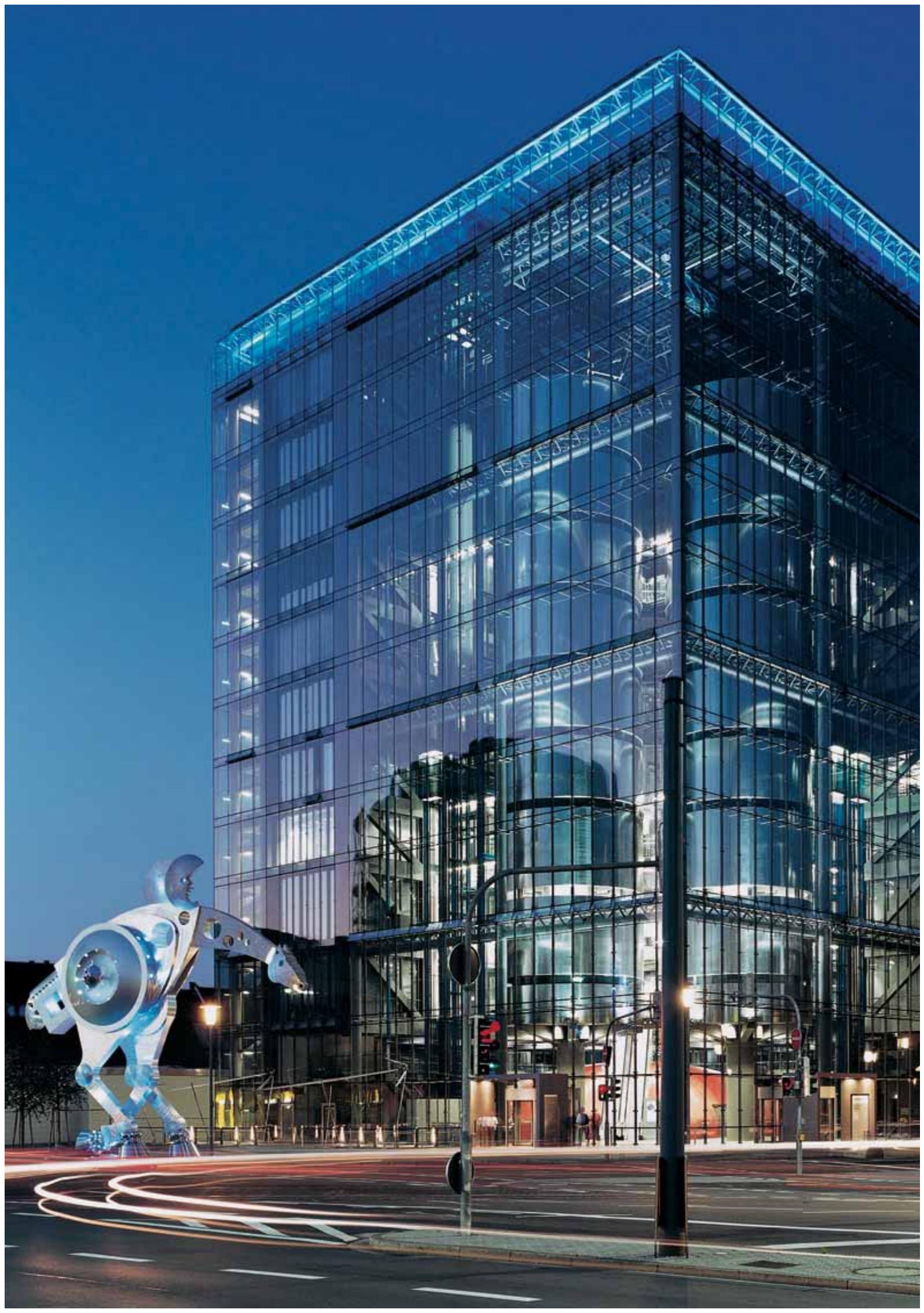
Exceptional productivity, user friendliness and technical reliability are the key criteria for producing special applications with UV technology on a Speedmaster CD 74.

Speedmaster CD 74 straight-printing models with two coating systems and one or two intermediate dryer stations also enhance the range of applications of this versatile press series.

Further information about special applications on the Speedmaster CD 74 can be found in the "Speedmaster CD 74 Special Effects" brochure.

The Speedmaster CD 74 Duo with coating units before and after the printing units for special high-quality surface finishing applications.





# Modular Solutions from Heidelberg

Production workflows are becoming more and more complex and demanding. No two jobs are alike. Customers are calling for better quality and greater value. Heidelberg is therefore committed to a modular solution concept – from prepress to postpress, from the single product right through to the entire workflow. Our aim is to provide each customer with a tailor-made solution to meet his particular needs. Our concept focuses on solutions, while closeness to the customer is our governing principle.

## 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 Integration System

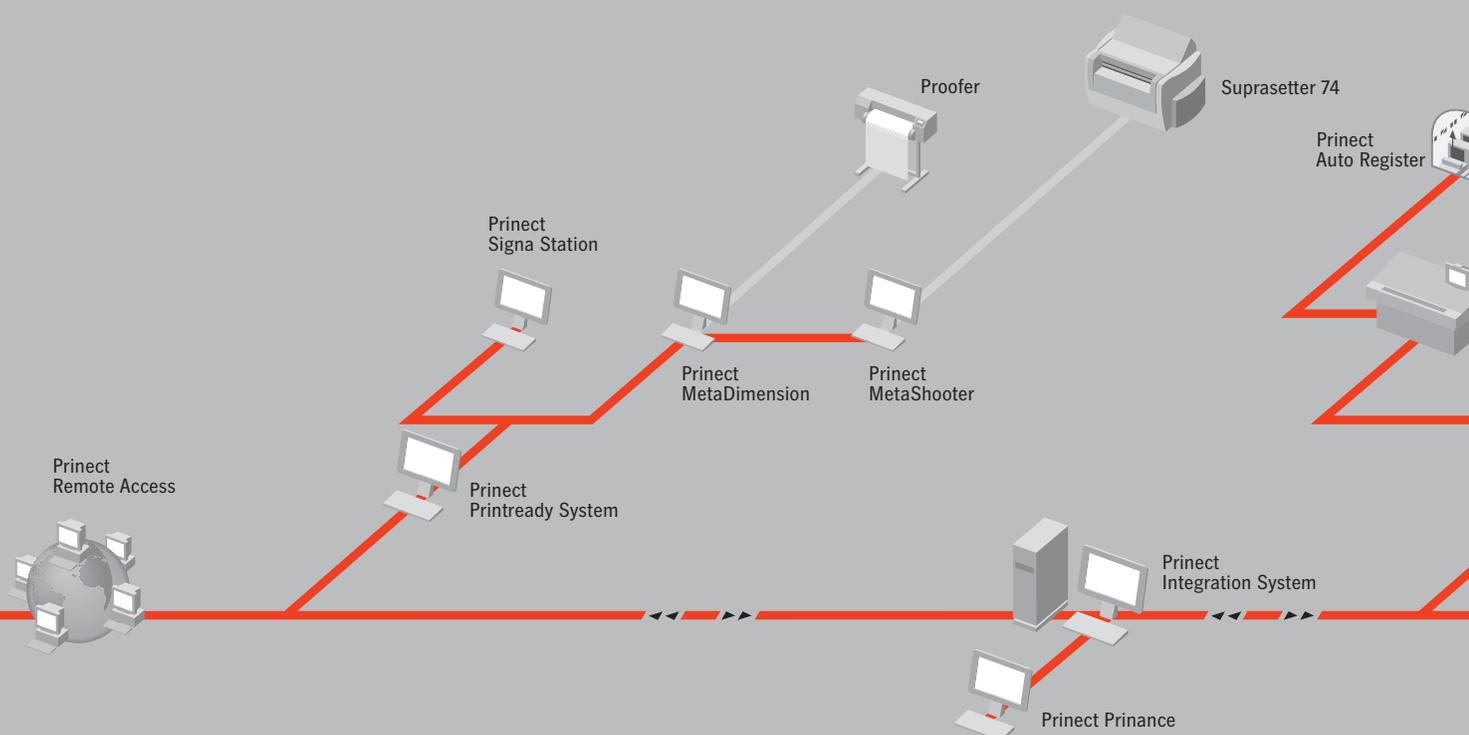
The JDF-based Prinect Integration System combines the prepress workflow solution Prinect Printready System and the Prinect Pressroom Manager with the Management Information System (MIS) and, as a subordinate process control system, brings together all the departments of a printshop.

## Prinect SignaStation

Impositioning and sheet assembly are key steps in the print preparation stage. The new version of Prinect Signa Station is guaranteed to impress with its easy-to-understand tools, intuitive user interface and reliable impositioning concept in which the folded sheet and print sheet are separated from each other.

## Prinect MetaDimension

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.



### Prinect MetaShooter

Prinect MetaShooter is a made-to-measure solution that provides the user with a whole range of benefits. Prinect MetaShooter uses the reliable TIFF-B data format, the format used for storing the imposed and screened sheet. While Prinect MetaDimension is able to generate any number of bitmaps when disengaged from the imaging unit, Prinect MetaShooter can output the TIFF-B bitmaps generated by the RIP to the connected recorders.

### Suprasetter 74

The Suprasetter 74 works with Thermal Laser Technology developed entirely by Heidelberg. It offers maximum flexibility with regard to productivity, plate handling, and diecutting in four-page format. Equipped with a Single Cassette Loader or Multi Cassette Loader, it enables fully automated, efficient platemaking.

### Prinect Pressroom Manager

The Prinect Pressroom Manager is the first pressroom management system worldwide which is entirely JDF-based and able to administer and control all the data required for print production. This system provides each department with exactly those data it requires, i. e. the job and production data are transmitted directly to the pressroom manager's office, the person in charge of the print job or to the printing press.

### POLAR Compucut

Compucut is a software for externally creating cutting programs for POLAR high-speed cutters.

### POLAR 115

POLAR 115 is the right high-speed cutter for sizes around 65 x 92 cm (25.59 x 36.22 in) suitable for a wide range of materials (paper, card board, card stock and plastic sheet) up to a cutting width of 115 cm (45.28 in).

### Prinect FCS 100

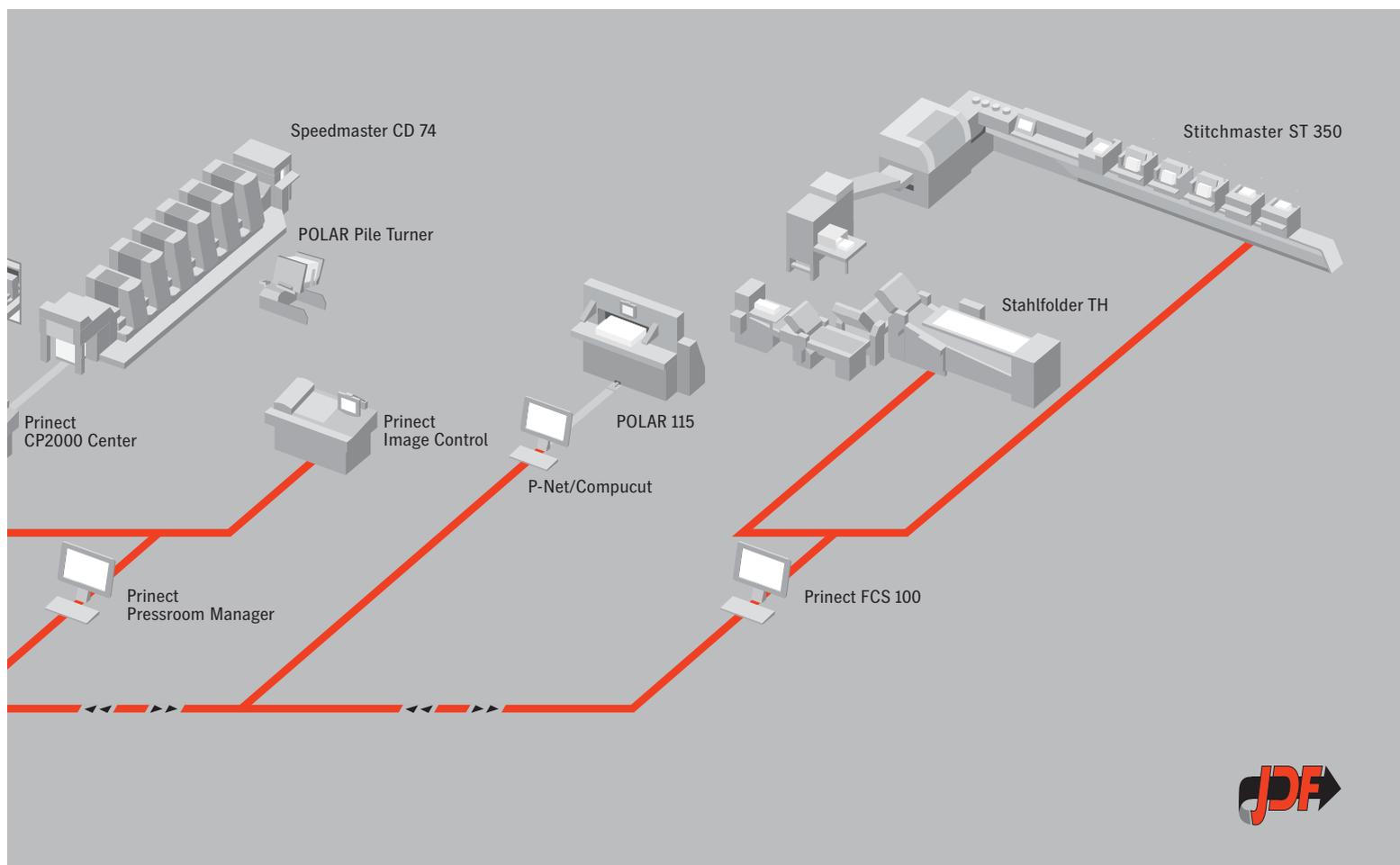
This production and information system is the central module for seamlessly integrating processes in the Prinect Workflow Management System – from prepress to finishing.

### Stahlfolder TH

The Stahlfolder TH series buckle plate folders are professional machines for top productivity and flexibility. New automation features and a user-friendly operating concept enable shorter makeready times. Together with full CIP4-JDF-based workflow integration, it maximizes throughput.

### Stitchmaster ST 350

The Stitchmaster® ST 350 is the professional model for medium to long runs. It boasts outstanding flexibility, operator-friendliness and consistently reliable production.



# 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



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