



Suprasetter

The Modular CtP Systems
which Expand with your Needs

HEIDELBERG



HEIDELBERG
SupraSetter

Contents

- 4 Enhanced Performance for every Printshop
- 5 Versatility – Modularity – Productivity
- 6 The Sum of all CtP Innovations
- 9 The Suprasetter in Detail
- 10 Convenient Plate Handling
- 13 Technical Data
- 14 Intelligent Software Connection
- 17 Workflow
- 19 Heidelberg Solutions

Enhanced Performance for every Printshop •

A Suprasetter makes any CtP-based production operation more precise, reliable and convenient than ever before.



There are three clear trends which are having a lasting influence on efficiency in print production: Shrinking print runs, an increasing volume of jobs and the growing complexity of individual orders. For contemporary CtP systems, this means being able to deliver high-quality printing plates in a wide range of formats quickly and reliably. Numerous printshops have long since responded to the changes on the market and moved over to multi-shift operation. The trend towards automation continues. This is precisely where the strengths of the Suprasetter lie. Since it can handle all the plate formats required in the pressroom, and allows plate throughput to be upgraded in the future without any problems, it provides the ideal conditions for efficient production with an eye on future growth. As the world's leading supplier of equipment to the printing industry, Heidelberg® has channeled its wealth of experience into the development of this cutting-edge generation of thermal platesetters.

The ideal CtP system

The global trend for printshops to move over to CtP-based production has been growing for years. The demands which people place on an "ideal" CtP system are the same the world over. These days, a new CtP generation needs to be able to effortlessly adapt to customers' growing requirements, such as smaller print runs with a larger number of jobs and thus greater plate throughput. It needs to be upgradeable easily and without losing time and has to be able to connect to different workflow systems. Moreover, it needs to offer adjustable plate handling and be as simple as possible to operate. It is only by offering all this with a high level of reliability and quality that a CtP system can really deliver all its competitive advantages. If service and operating costs can also be cut to a minimum, there should be nothing standing in the way of the business success of the printshop. The ideal CtP solution to meet these demanding expectations is the Suprasetter.

Versatility – Modularity – Productivity • The Suprasetters offer maximum versatility in plate handling, a unique modular approach to upgrades and top productivity thanks to innovative laser technology.

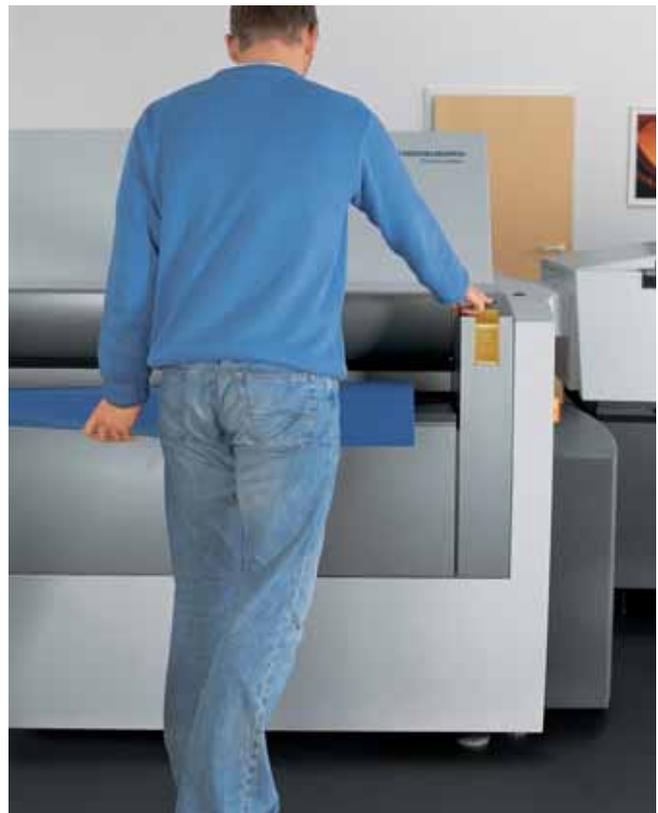
The new platesetters are setting standards never achieved before when it comes to simultaneously enhancing the productivity and versatility and ensuring top investment security for the future.

Versatility for that competitive edge

The new Suprasetters offer top versatility when it comes to plate handling, format coverage and punching. Numerous configurations are possible – from the 4- or 8-page basic model to the Single Cassette Loader (SCL) and the fully automatic Multi Cassette Loader (MCL). They can process the plate formats from all Heidelberg printing presses and many other well-known manufacturers. The Suprasetter also features an internal punching system which provides an effective, fast and register-accurate method of punching the plates in the form required for the printing press.

Modular design secures your investment

The laser head exclusively developed by Heidelberg offers unprecedented potential for boosting plate throughput. The Suprasetter models in both format classes are available in several configurations going up to a productivity level which can justifiably be termed “high-speed”. Subsequent upgrades are also possible at any time and without long downtime. The Suprasetter takes a similarly modular approach to punching and automatic loading systems.



Manual plate handling on a Suprasetter is equally convenient with 4- and 8-page formats.

The Single Cassette Loader and Multi Cassette Loader make the Suprasetter a fully automatic, efficient production unit. And, of course, like the punching systems, upgrading is simple and quick.

The Sum of all CtP Innovations • With its numerous technical components, each of which is a true innovation, the new Suprasetter system is guaranteed to impress.

A new CtP system needs to offer you the potential to really enhance performance in your production operations. It is not enough to simply improve individual technical details. It is the sum of all the innovations which matters. When developing the Suprasetter, particular store was therefore set by perfectly tuning all the technical components to each other. Regardless of whether you need a compact design, speed, reliability or user-friendly operation, the Suprasetter sets new standards in the CtP sector with its outstanding features.



The compact design of the Suprasetter really pays off in cramped conditions.

Compact design

Even from the outside, a Suprasetter will impress you with its amazing compact design. In spite of all the high-tech features it offers, it remains modest in size, making it a real space-saver compared to other devices in its class. The configuration without loader is particularly useful if you wish to place the device up against a wall.

Transport unit with swiveling table

The design of the Suprasetter is outstanding, both technically and visually. A glance inside will show that the dual-level swiveling table is central to the eye-catching design of the device. Thanks to this movable transport unit, the Suprasetter is flexible and efficient in any situation. This method separates loading and unloading procedures, which has a positive effect on plate throughput. In conjunction with the external drum, this ensures extremely flexible manual, semi-automatic or fully automatic plate handling. The plate cylinder with its innovative clamping bar also ensures a minimum clamping area and a maximum imaging area.



The new lasers are guaranteed to impress with their compact design, flexible upgrade options and speed. The intelligent diode system also offers unique reliability.

Top punching precision and versatility

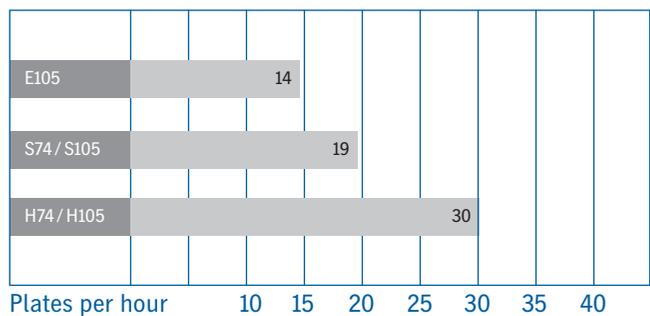
The Suprasetters have been designed to create top-quality print-ready plates with a minimum of time and effort. In order to achieve this objective, an efficient and precise internal punching system is essential. The new punching method used in the Suprasetter ensures that punching is performed with maximum register accuracy for all printing presses from Heidelberg as well as for most other printing presses available on the market. Additional punch types can be added at any time in the future.

The new lasers from Heidelberg

In order to ensure rapid and completely reliable plate imaging, one thing is absolutely vital – intelligent laser systems which you can rely on. With the new laser developed exclusively by Heidelberg, you do not just get excellent imaging quality and maximum productivity; you can also add new modules to constantly increase your throughput. The modular design allows a tailor-made range of configuration options to suit any requirement. Moreover, the performance of a Suprasetter can be enhanced on the spot at any time by adding laser modules.

Thanks to its compact design, upgrades can be carried out without lengthy periods of downtime and with minimal service intervention. That saves time and money.

Productivity add-on levels



The plate throughput rates which can be achieved by both the Suprasetter 74 and the Suprasetter 105 in all configuration levels are guaranteed to impress.

Intelligent Diode System (IDS)

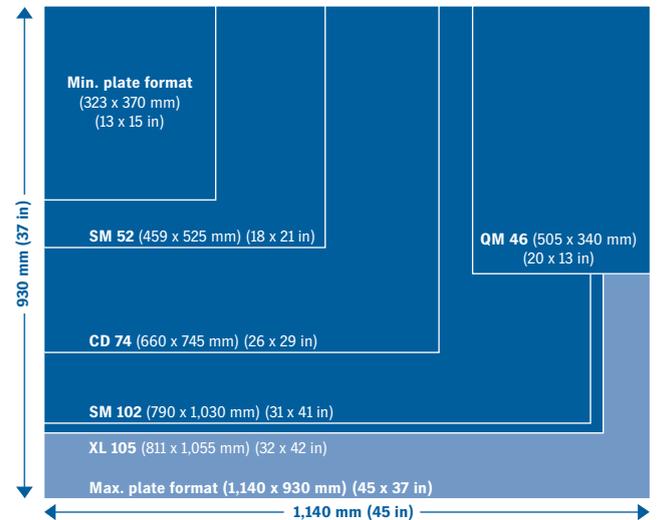
The new laser system made by Heidelberg offers maximum reliability. Its Intelligent Diode System (IDS) ensures that operation can continue with no noticeable drop in performance even if a diode fails due to wear and tear. In any given situation, the IDS automatically looks to the left or right of the failed diode to find the largest possible group of active diodes, and then continues the work with these.

Depth of focus

Alongside the IDS, the high depth of focus capabilities ensures constant production reliability. The new Heidelberg laser system thus guarantees optimum imaging quality, automatically compensating for any unevenness in the plates.

Temperature stabilizer

The Suprasetter does not just offer perfect plate production independently of its technical environment. Thanks to its integrated temperature stabilizer, it can also deal with any temperature fluctuations which might affect output quality. This keeps the temperature inside the device at a constant level, preventing any register inaccuracies caused by the expansion of the aluminum in the printing plate as temperatures rise. This means that a Suprasetter can easily be operated under conditions in which other devices would need air-conditioning.



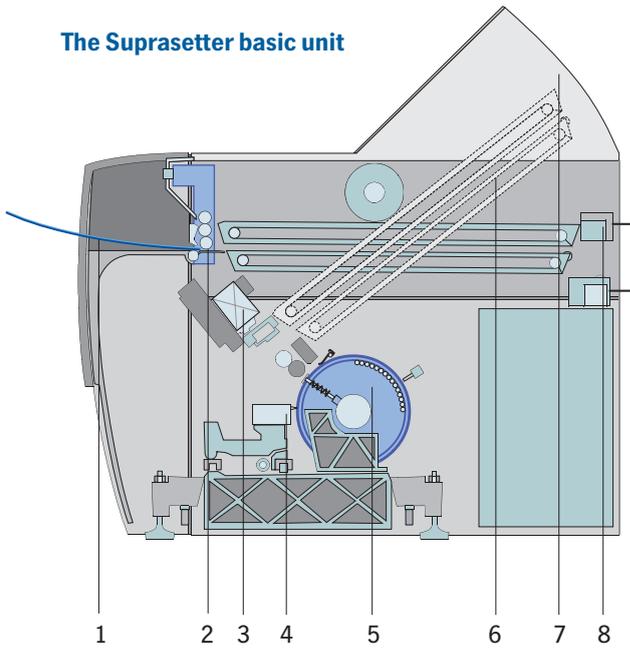
The versatility of the Suprasetter 105 can clearly be seen from its coverage of plate formats for Heidelberg printing presses.

Versatility in plate formats

The new Suprasetter range can meet the plate requirements of all Heidelberg printing presses and those of many other manufacturers too. If you choose a Suprasetter today, you can be sure that you will have maximum flexibility in printing plate formats for many years to come.

The Suprasetter in Detail

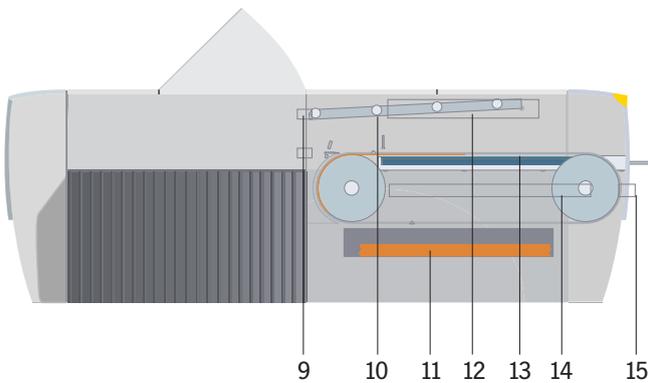
The Suprasetter basic unit



Extremely compact design:

- 1 Manual plate shaft
- 2 Plate intake and output unit
- 3 Punching unit with punching heads
- 4 Laser unit
- 5 External drum plate cylinder with clamping bars
- 6 Swiveling table with dual-level design
- 7 Protective housing for swiveling table
- 8 Direct link to online processor and SCL

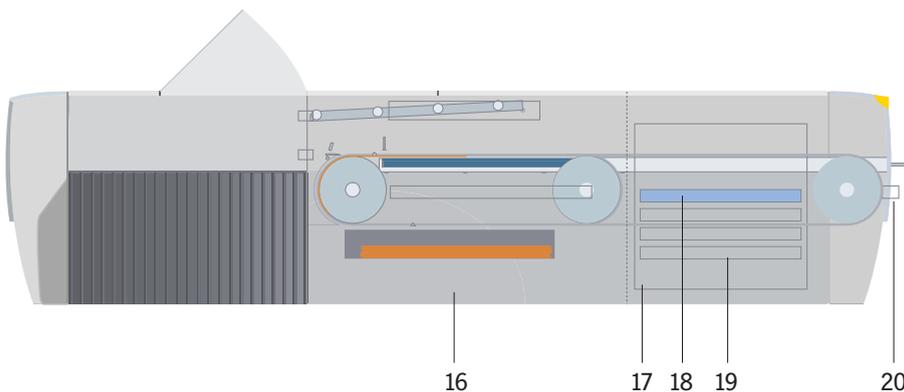
Suprasetter with Single Cassette Loader (SCL)



Reliable plate loading:

- 9 Link to Suprasetter
- 10 Output transport table
- 11 Paper container with paper pile
- 12 Integrated conveyor to online processor
- 13 Plate transport table
- 14 Cassette
- 15 Slide-in cassette module

Suprasetter with Multi Cassette Loader (MCL)



Fully automated production:

- 16 SCL
- 17 Vertically adjustable cassette basket
- 18 Active cassette
- 19 Stored cassettes
- 20 Slide-in cassette module

Convenient Plate Handling • The Suprasetters offer maximum versatility with manual, semi-automatic and fully automatic loading.



Fully automatic operation and manual production of individual jobs are no problem for a Suprasetter with MCL. An individual imaging procedure can be carried out easily and conveniently at any time.

You decide how much automation you want

The high degree of versatility offered by the Suprasetter concept is particularly apparent in the wide range of plate handling options available. Configuration levels ranging from the manually operated device with or without online processor to arrangements featuring Single Cassette Loader (SCL) and the highly automated Multi Cassette Loader (MCL) are all finely tuned to one another. Subsequent upgrades are easy and quick, and can be carried out on the spot.

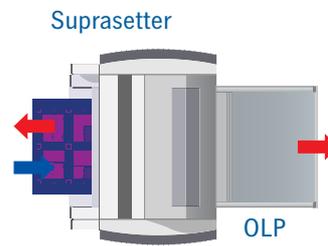
Smart plate handling

Naturally, a Suprasetter also offers you the option of convenient manual operation or semi-automatic production, even if you choose the highest configuration levels with interfaced SCL and MCL. This is no problem,

since – unlike other CtP systems – a loader is docked onto the back of the Suprasetter. This leaves the plate shaft on the Suprasetter freely accessible for manual plate loading. This represents a big advantage over conventional systems, most of which only permit limited bypass operation. With the Suprasetter, fully automatic and manual operation are not mutually exclusive – they are just two different practical options offered by one system.

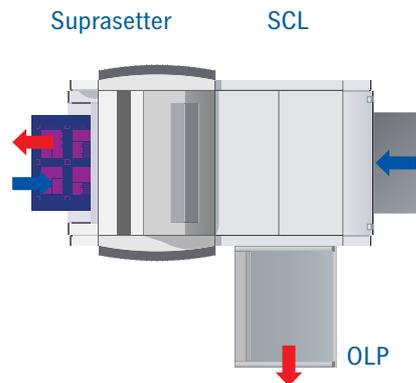
Manual and semi-automatic production

Manual operation of a Suprasetter could not be simpler. All you have to do is insert the plate you want to image into the shaft and press the start button. All other subsequent steps take place automatically. In semi-automatic production, the interfaced online processor takes the imaged plate and develops it automatically. The dual-level swiveling table provides the next plate while the first one is being imaged.



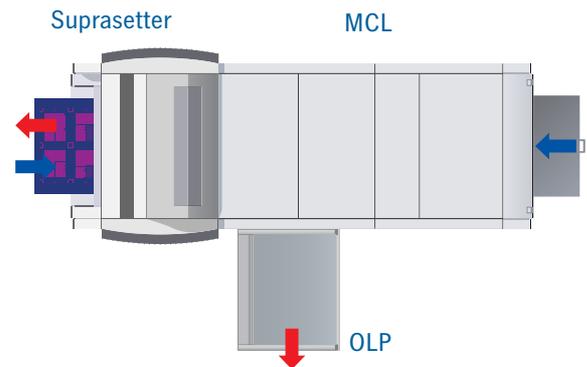
Automatic operation with Single Cassette Loader

The Single Cassette Loader which connects onto the back of the Suprasetter is the first step towards fully automatic plate production. After removing the slip sheet, it loads the plate into the Suprasetter for imaging and then outputs it via the processor connected to the side of the device. Since the plate is inserted with the narrow side first, a processor with the smallest possible entry width can be used. This advantage really pays off in terms of low purchase and running costs, as well as saving space. Alternatively, you can continue to produce manually or semi-automatically with full convenience.



Fully automatic production with Multi Cassette Loader

In its highest configuration level with MCL, a Suprasetter can hardly be beaten in terms of versatility. The MCL consists of the SCL plus a docked plate container, and can hold up to four cassettes. Cassettes are selected fully automatically, depending on the job.





Cassettes are easy to load when the cassette carriage is tilted. In its horizontal position, the carriage can be pushed into the loader effortlessly.

Automatic slip sheet separation

The quality of an automatic plate loading device can be measured by the reliability of its slip sheet separation. The tried-and-tested SCL concept offers top performance here, and can remove all commonly used slip sheets. Thanks to the large 400-sheet capacity of the paper collecting tray, tiresome paper jams are a thing of the past. The volume is often large enough for a whole week's worth of plate production.

Enormous plate capacity

The SCL can hold up to 150 mm 0.15 (0.006 in) plates in one cassette. With a plate thickness of mm 0.3 (0.012 in), capacity is still up to 100 plates per cassette. The MCL version offers up to 4 cassettes with online control – i.e. a maximum of 600 or 400 plates. The plates can be in one format or a flexible combination of up to four different formats. This enormous plate capacity allows real continuous operation for many hours without the need to constantly refill cassettes. Cassettes are changed automatically in line with the needs of the job in hand.

Tilting cassette carriage

A special cassette carriage has been developed to allow fast, easy transportation of cassettes loaded with plates from the storeroom to the platesetter. The cassette carriage can be tilted to considerably facilitate plate insertion. In this position, it can be pushed effortlessly. This is an advantage which really comes into its own when working in small rooms with normal-sized doorways, and when transporting large printing plates.

Technical Data for Suprasetter Basic Unit

	Suprasetter 74	Suprasetter 105
Design	External drum platesetter	
Plate handling	Manual (standard), semi-automatic with online processor, fully automatic with Single Cassette Loader (SCL) or Multi Cassette Loader (MCL)	
Dimensions (W x D x H)	1,830 x 1,500 x 1,540 mm (72.05 x 59.06 x 60.63 in)	2,150 x 1,500 x 1,540 mm (84.65 x 59.06 x 60.63 in)
Weight	850 kg (1,874 lbs)	990 kg (2,183 lbs)
Plate type	Thermal aluminum printing plates with a sensitivity of 830 nm	
Plate format		
Height (in circumference of drum)	From 370 to 680 mm (14.57 to 26.77 in)	From 370 to 930 mm (14.57 to 36.61 in)
Width (in axis of drum)	From 323 to 750 mm (12.72 to 29.53 in)	From 323 to 1,140 mm (12.72 to 44.88 in)
Imaging area (H x W)	max. 668 x 750 mm (26.30 to 29.53 in)	max. 918 x 1,140 mm (36.14 to 44.88 in)
Plate thickness	0.15 bis 0.30 mm (0.006 – 0.012 in)	0.15 bis 0.35 mm (0.006 – 0.014 in)
Resolution	1,270/2,540 dpi	1,270/2,540 dpi
Accuracy		
Register	+/- 25 µm for a plate set using the internal punching system	
Repeatability	+/- 5 µm for 2 consecutive imaging processes on the same plate	
Productivity ¹⁾ (2,540 dpi, max. plate width)	S74: Up to 19 plates/h H74: Up to 30 plates/h	E105: Up to 14 plates/h S105: Up to 19 plates/h H105: Up to 30 plates/h
Internal punching	Up to 3 punching pairs	Up to 4 punching pairs
Requirements for Plate on Demand (connection to Prinect CP2000 Center)	MetaDimension Version V5.0 or above, CP2000 Center Version V41 or above, Preset Link activation	
Ambient conditions	Operating temperature: 17 °C to 30 °C; 30% to 70% relative humidity	
Options	SCL, MCL, punching	
Approvals / conformity	GS, UL, cUL, GOST / CE, FCC, CDRH, ACN	

¹⁾ Productivity depends on the type of plate used.

Technical Data for Suprasetter SCL

	Suprasetter SCL 74	Suprasetter SCL 105
Plate capacity per cassette	Up to 100 plates (thickness 0.30 mm), up to 150 plates (thickness 0.15 mm)	
Dimensions (W x D x H)	1,390 x 1,330 x 1,110 mm (54.7 x 52.4 x 43.7 in)	1,710 x 1,600 x 1,110 mm (67.3 x 63.0 x 43.7 in)
Weight	415 kg (915 lbs)	527 kg (1,162 lbs)
Separation of slip sheets	Automatic; internal paper collecting tray for up to 400 sheets	
Standard features	SCL, cassette carriage (trolley), cassette	
Options	Additional cassettes and cassette carriage	
Approvals / conformity	GS, UL, cUL, GOST / CE, FCC, ACN	

Technical Data for Suprasetter MCL

	Suprasetter MCL 74	Suprasetter MCL 105
Capacity	Max. 4 cassettes	
Plate capacity per cassette	Up to 100 plates (thickness 0.30 mm), up to 150 plates (thickness 0.15 mm)	
Dimensions (W x D x H) incl. SCL	1,390 x 2,560 x 1,110 mm (54.7 x 100.8 x 43.7 in)	1,710 x 3,100 x 1,110 mm (67.3 x 122.1 x 43.7 in)
Weight (incl. SCL)	965 kg (2,127 lbs)	1,127 kg (2,485 lbs)
Standard features	Cassette carriage, 2 cassettes	Cassette carriage, 3 cassettes
Options	Additional cassettes and cassette carriage	
Approvals / conformity	GS, UL, cUL, GOST / CE, FCC, ACN	

Intelligent Software Connection with Prinect •

The Suprasetter has no trouble meeting requirements for simple operation, transparent processes and comprehensive Prinect integration.



The Suprasetter integrates perfectly into the Heidelberg Prinect workflow.

Perfect Prinect integration

These days, software is the key factor in the efficient operation of CtP installations. By integrating perfectly into the Heidelberg Prinect® environment, the Suprasetter offers more than other systems in this area too. All the status information from the CtP device can be transferred to the Prinect prepress software and then evaluated by the management information system. The Suprasetter can also be integrated perfectly into the new JDF-based Prinect Printready System™ workflow, the cutting-edge prepress workflow system from Heidelberg.

A reliable interface to the workflow

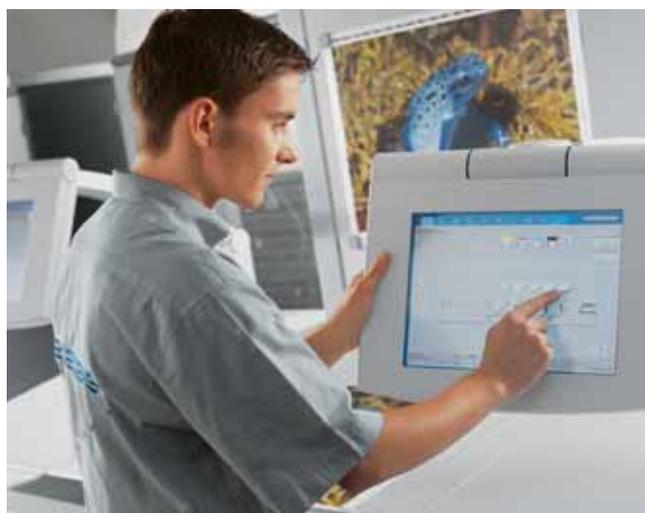
The Prinect® MetaShooter® is the interface between the Suprasetter and the prepress system. It receives the separated and screened data from the prepress stage in compressed TIFF-B format, a fully reliable data format which can be displayed but not modified on the Prinect MetaShooter.

This method offers numerous advantages:

- The plates can be called up for imaging at any time with a simple click of the mouse.
- No prepress-specific knowledge is required.
- Decoupling from the workflow ensures maximum plate throughput.
- Fast network connections allow for the prepress department to be remote while the CtP system can be set up near the pressroom.
- Prepress systems from other manufacturers can be connected.

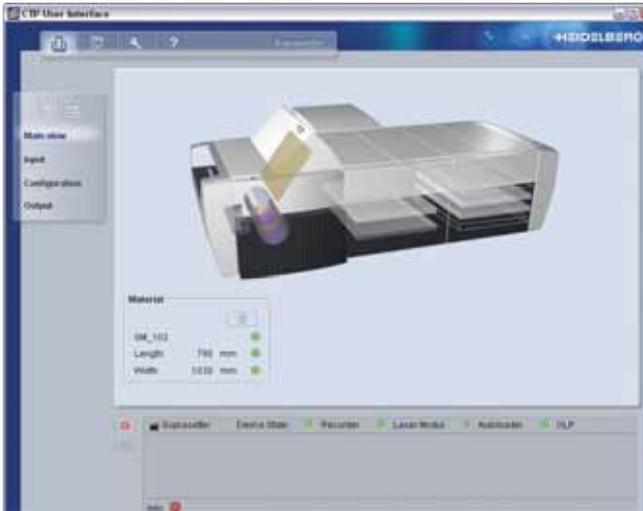
Plate on Demand, the connection to the Prinect CP2000 Center¹⁾

The Suprasetter can be integrated effortlessly into a workflow featuring the Prinect® CP2000 Center®. This allows the operator in the pressroom to launch plate production without any specialist prepress knowledge, simply by selecting the plate for imaging from the list on the CP2000 touchscreen. The output order can be changed at any time.



The operator can launch production of a printing plate on the Prinect CP2000 Center without any specific prepress knowledge.

¹⁾ Requirements for Prinect CP2000 Center connection: See Technical Data on page 13.



The user-friendly control program shows the current operating status using animated graphics.

What is more, the CP2000 operator can always tell at a glance which printing plates are currently being worked on. With Plate on Demand, Heidelberg is showing that the integration of pressroom and prepress is already a reality.

Easy-to-use control software

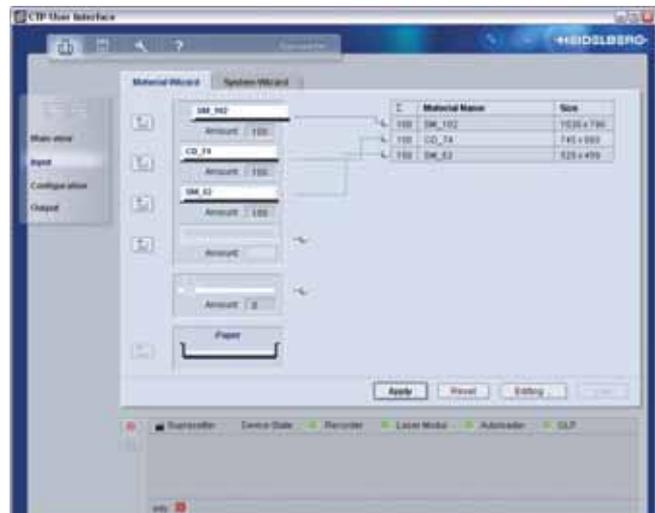
The Suprasetter is fully software-controlled from a user interface which is very simple to operate. Graphic animation clearly shows the operator the status of the device at any time. All parameters and status inquiries are clearly displayed and modified on the screen. The user interface is designed to be intuitive, thereby reducing operator error to an absolute minimum. The Suprasetter control software runs on the same PC as Prinect MetaShooter.

Controlling the online processor

Most CtP systems do not have any means of communicating with an interfaced automatic processor, but the Suprasetter is breaking new ground here, too. When suitable processors are connected, all important status data such as the fill level of the baths or the temperature of the chemicals can be called up in real time and displayed using the operating program. This considerably increases the reliability and safety of the production process.

Fast assistance

Another benefit of the Suprasetter's operating program, which should not be underestimated, lies in its remote capability. Remote diagnosis can be carried out by the Heidelberg Service team with a simple Internet connection. This optimizes service quality, and helps you to achieve long-term cost reductions.



The assignment of the MCL cassettes is clearly displayed and can easily be changed at any time.



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

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 Signa Station

Prinect® Signa Station® is a brand-new imposition software package from Heidelberg. It was created with know-how gained from over 12 years of experience and more than 6,000 customer installations worldwide. Designed to make your life easier, this software tool will not only meet but surpass your expectations of an imposition package.

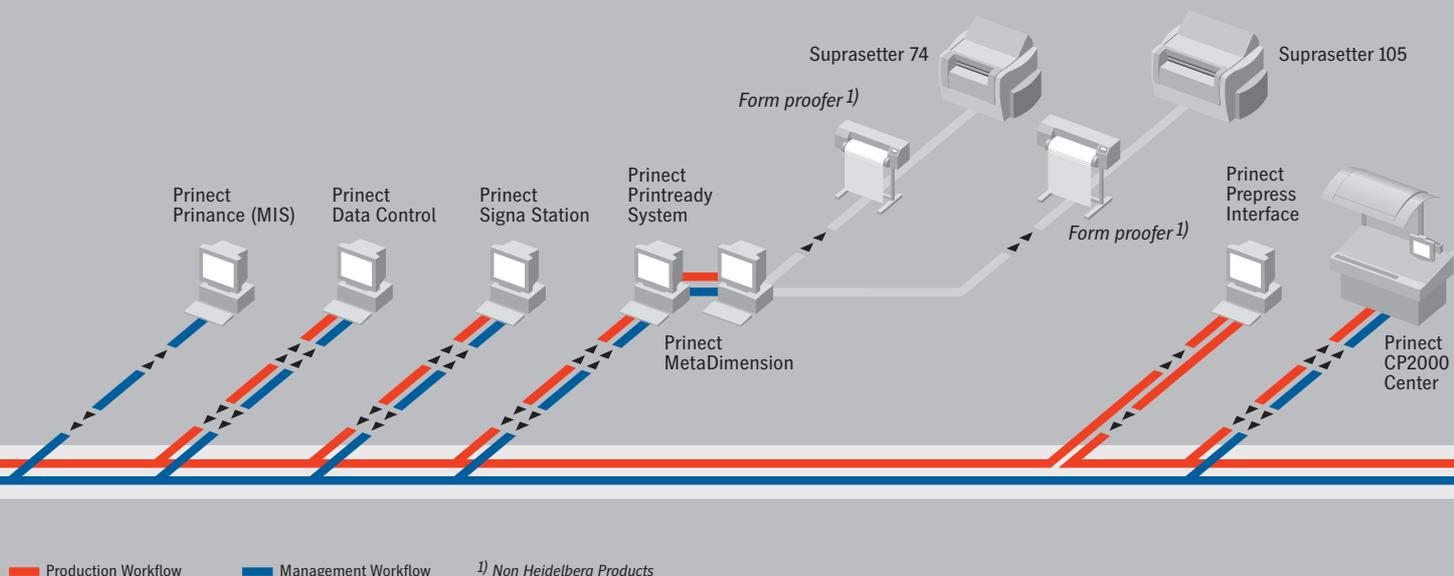
Prinect Printready System

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 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.

Management	Production	Press
	Prepress	



Princt 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 Princt® Image Control, register presetting for Princt Auto Register and position marks for postpress equipment.

Princt CP2000 Center

The Princt CP2000 Center opens up a new dimension of performance in press operation. The ergonomic design of the Princt 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 Princt CP2000 Center, is efficient integration of Speedmaster presses into your printshop's workflow.

Speedmaster CD 74

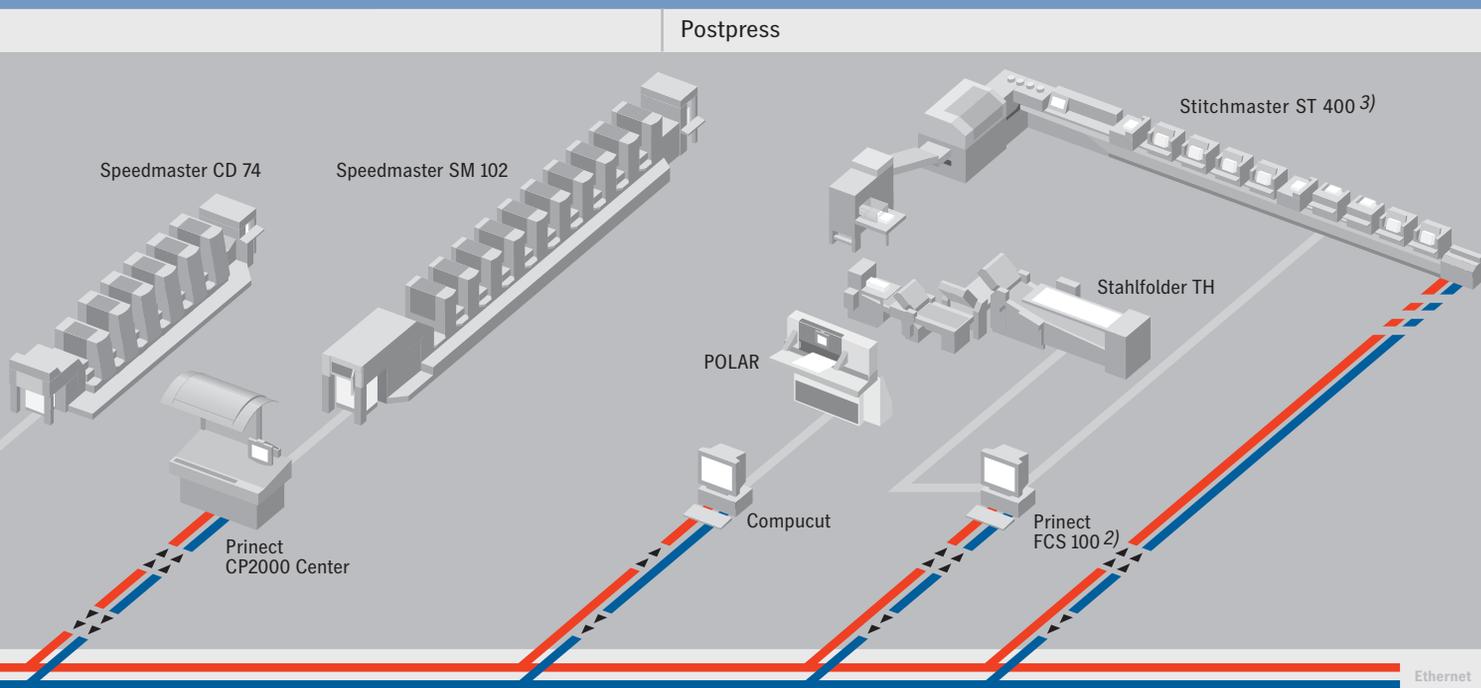
Developed for industrial-scale jobs and packaging printing where frequent job changes are the norm, the CD 74 supports rapid format and material changes, assisted by a digital press control system built around the CP2000 Center.

Speedmaster SM 102

One Pass Productivity - printing on both sides of the sheet is made much more comfortable with the Speedmaster SM 102. Take advantage of the solutions that match your specific needs for perfect one-sided printing and perfecting.

Princt FCS 100

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



²⁾ includes Compufold, Compostitch, PDM

³⁾ optional with Princt FCS 100 or direct connection

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



Heidelberg Druckmaschinen AG

Kurfuersten-Anlage 52–60

69115 Heidelberg

Germany

Phone +49-62 21-92-00

Fax +49-62 21-92-69 99

www.heidelberg.com

Publishing Information

Printed in: 04/04

Photographs: Heidelberg Druckmaschinen AG

Platemaking: CtP

Printing: Speedmaster

Finishing: Stahlfolder, Stitchmaster

Fonts: Heidelberg Gothic, Heidelberg Antiqua

Printed in Germany

Trademarks

Heidelberg and the Heidelberg logotype, Prinect, CP2000 Center, MetaDimension, MetaShooter, Prinance, Signa Station, Speedmaster and Stitchmaster are registered trademarks of Heidelberg Druckmaschinen AG in the U.S. and other countries. Prinect Printready System is a trademark of Heidelberg Druckmaschinen AG in the U.S. and other countries. All other trademarks are property of their respective owners.

Subject to technical modifications and other changes.

