



Ultimate printing and value-adding. **Heidelberg ICS.**



A partnership that pays off. Heidelberg Web Carton Converting GmbH.

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

➔ heidelberg.com/webfed-solutions



Our areas

E

Equipment

Our high-end webfed solutions meet any challenge in the production of folding cartons. We analyze your needs and desires and work out your ideal machine configuration. We take into account future requirements, for which you should be prepared. Get professional in folding carton converting or develop yourself as a high-performance packaging provider. Heidelberg Web Carton Converting GmbH is your partner for growth, success and security.

➔ heidelberg.com/webfed-solutions

S

Service

We offer you customized solutions – in machine configuration and in service. Our services are just as sophisticated as our machine concepts: counseling from the beginning, extensive training, service and maintenance as well as a complete supply of spare parts – our service technicians are always close-by, at any time and all around the world. Our industry-specific solutions also make us a competent partner in financial matters.

➔ heidelberg.com/en/ics/service

C

Consumables

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

➔ heidelberg.com/consumables

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Your dialog with Heidelberg

Excellent combination printing. **Heidelberg ICS.**

Our high-end webfed solutions are among the highest quality and most efficient web presses in the industry. Make your business successful with the highly productive characteristics of the Heidelberg ICS.

The ICS series is a revolutionary inline converting system. Through the use of modular, easy to change printing and value-adding modules, the Inline Converting System combines enormous process and production flexibility in a single machine. The systematic implementation of the easy-value-adding platform concept and open interface architecture make the ICS the only webfed solution, which can be adapted according to your needs: modular, flexible and scalable.

The intuitive operation and the high level of automation are further highlights of the ICS. Easily you process virtually any substrate and produce your products in a single pass from the roll to the finished die-cut blank.

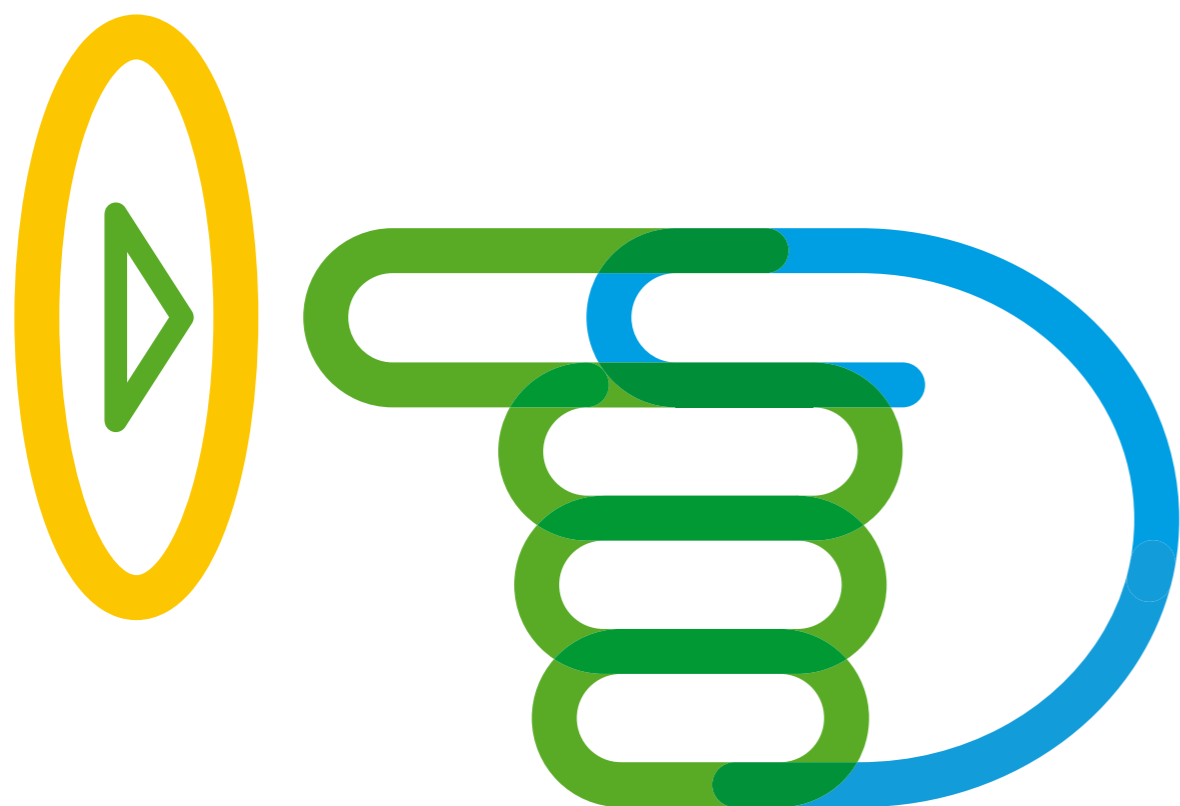
In combination with our comprehensive service portfolio, the Heidelberg ICS is the ideal choice for the economical production of folding cartons with high value-adding applications.

➔ heidelberg.com/en/ics



Optimum connectivity. Connected and automated.

The control station of your Heidelberg Intro offers innovative technologies. All quality parameters are measured, controlled and recorded for your complete equipment. The data can be analyzed using Heidelberg software or external databases. In our connected machine software maximum ease of use meets thoughtful ergonomics and intelligent data management.

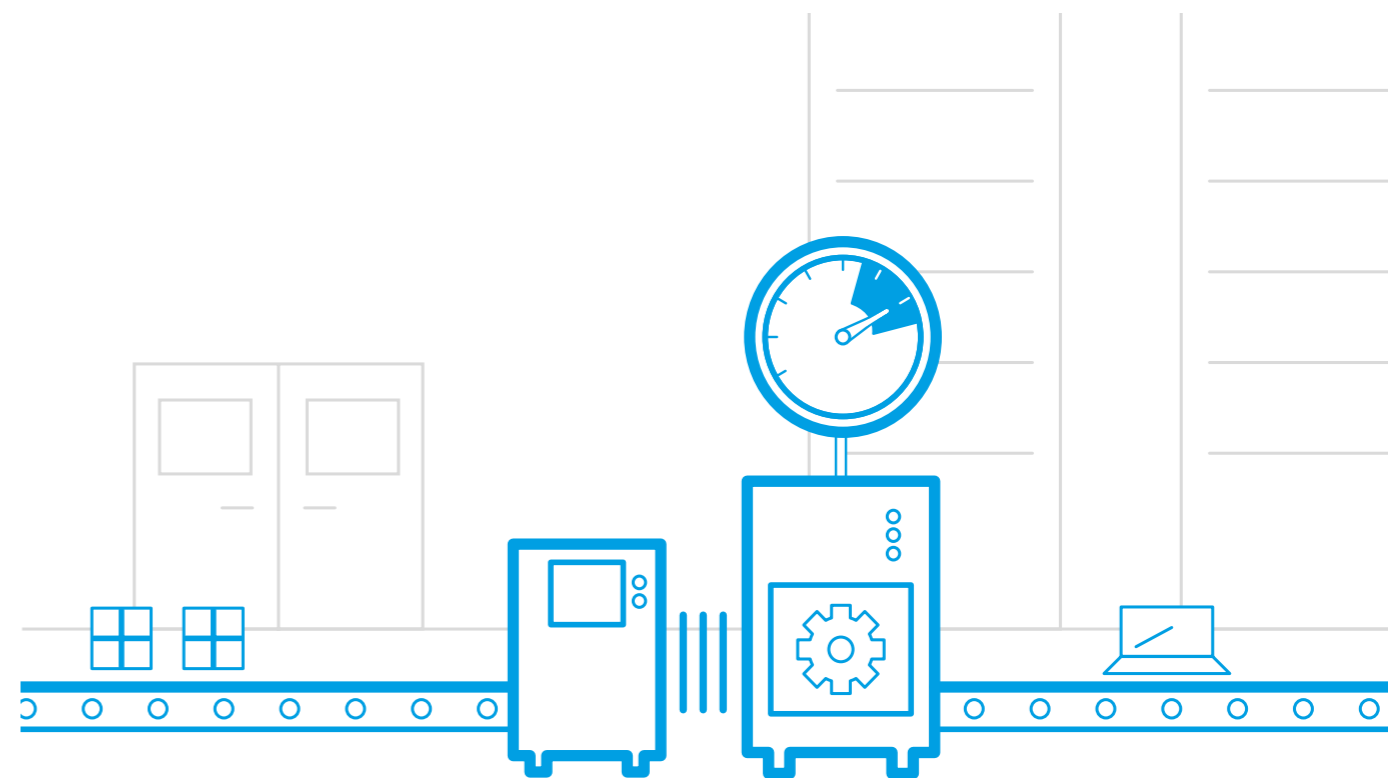


Efficiency at the touch of a button

Our innovative and intuitive operating concepts and the high level of automation offer you reliable performance and a noticeably reduced workload for your employees. For outstanding quality and productivity.

Integrated Intelligence. For a simple workflow.

The integrated workflow combines all necessary manufacturing steps in an intelligent way, automates processes and makes operations more transparent.



Facts and figures - available worldwide at any time.

The machine software records processes and provides comprehensive data for the potential analysis. You will receive tailored software solutions for maximum quality and efficiency.

Networked. Directly connected to your systems.

Our inline machine system is the ideal basis for a simple workflow within your production plant. The integrated software makes your Heidelberg printing press a networked system with easy control and operation. Transfer your job data directly from your order planning to the printing press. Collect data and make conclusions for the continuous optimization of your productivity.

Leading in web carton converting. 22 clear advantages*.

Makeready

30 %

less waste due to **Quick Register Movement.**

Reducing startup waste to a minimum with **automatic presetting parameters.**

Innovative, process-orientated Operation Guide for an optimized makeready and setup process.

The easy **accessibility** and ease of use reduces **maintenance time** by up to

50 %.

5 mins.



for a module change from cold foil or laminating to flexo printing.

Operation of the machine is possible **with minimum manpower.**

Up to

1 billion

die-cut blanks per year.



20 %

higher drying performance due to **high-efficient drying systems.**

Productivity

Realistic production speeds up to

350 m/min.

1,150 feet/min.

Consistently high print quality due to **Heidelberg HiDef flexo printing™ technology.**

Achieve

100% productivity

with our **customized operator trainings** right from the beginning.

Availability & maintenance

Preventive maintenance avoids up to

50 %

of all possible equipment failures.



You can find more about the economic and efficiency benefits of the Heidelberg ICS including operating data, sample calculations, and application testimonials here:

➔ heidelberg.com/ics/efficiency



Operator friendliness

The **ergonomic operating height** and comfortable control panels directly on the machine relieve the operator and allow an easy setup of the entire machine.

The **integrated maintenance assistant** supports the operator and provides expert instructions in maintaining and therefore reduces maintenance effort by up to

25 %.

Efficiency

11 value-adding methods

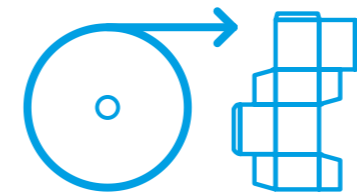
combined in a single machine.

Inline web converting eliminates both the gripper margin and the nesting-waste.

You produce economically and can already see the finished product at the end of the converting process.

17 %

Inline laminating saves of the costs compared to purchasing laminated roll material.



Using our unique converting system, highly-finished folding cartons can be produced from roll to roll or from roll to finished die-cut blank in

1 single pass.

Just-in-time delivery and inline finishing not only saves a multitude of time-consuming offline steps and storage capacities, but also material due to elimination of overproduction.

10 %

Up to cost savings due to cheaper roll material compared to sheetfed.

Environment

Short distance between ink reservoir and closed chamber reduce ink consumption by up to

40 %.

Energy savings of up to

13 %

due to recently developed **humidity control.**



* See reverse

Outstanding characteristics.

The facts at a glance.

The Heidelberg ICS series gives you tremendous production flexibility with easy to change printing, finishing and postpress modules. The modular EVA (Easy Value Add) platform concept makes the ICS the only webfed solution, which can be configured according to your job requirements. Change printing and finishing modules for different print jobs in a flash.



Equipment:

- Easy-value-adding platforms
- Various optional value-adding modules
- Add printing units "on the fly" in register to the printing process or take units out of the print job while the machine is running
- Automatic presetting parameters guarantee minimum waste
- The automatic register control ensures precise register accuracy over the entire printing process
- The Learning Pre-register allows accurate presettings. The control observes and stores operator adjustments and applies this information by default
- Quick Register Movement for fast adjustment during production
- High-efficient hot-air drying or UV curing system
- Required additional units to complete the entire system can be integrated easily and reliably

Highlights:

- One webfed solution to cover all your print jobs
- 11 inline value-adding methods in a single machine: gravure printing, cold- and hot foil application, laminating, screen printing, rotary hot foil embossing, digital imprint, rotary stamping and punching, UV casting, flexo finishing
- Produce folding cartons from the roll to the finished die-cut blank in a single pass
- The modular EVA (Easy Value Add) platform concept makes it possible to configure the press based on your job requirements
- The HiDef flexo printing™ technology ensures outstanding print quality throughout the entire job
- Ergonomic machine design and easy accessibility enable easy operation and make the setup process easy manageable

→ heidelberg.com/ics/technical-data



On-site know-how guarantees efficient operating and setup processes:
Training. Know-how Transfer.

- Tailored training programs boost your production
- Training programs for machine operators according to your needs
- Full exploitation of machine functions for maximum productivity
- Knowledge acquisition about the latest technical developments
- Increased machine operator motivation and confidence

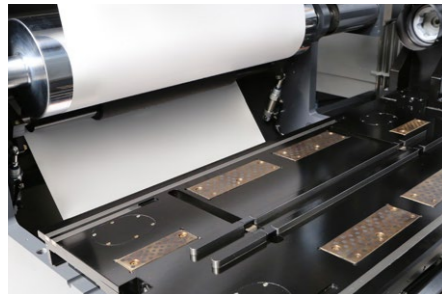
→ heidelberg.com/en/ics/service



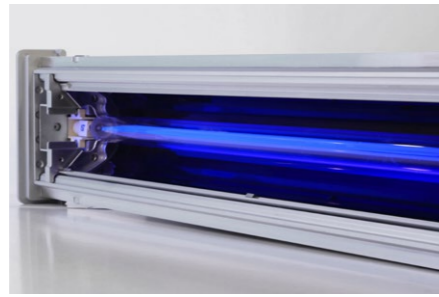
Varied and unique:
Saphira Coatings.

- The right product for every application
- Carefully selected raw materials for unique coating recipes
- Simple application with maximum production reliability
- Coatings for all functions (decorative or protective function and function extension)

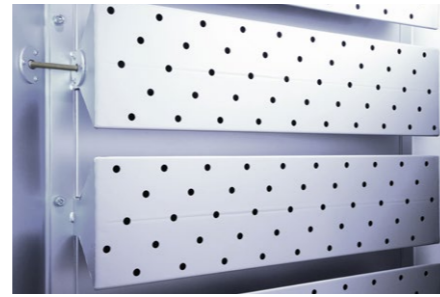
→ heidelberg.com/en/saphira-coatings



The easy-value-add platform enables the easy integration of the widest variety of different printing and finishing modules.



High-performance UV systems are implemented to ensure very high production speeds. Inert solutions are available.



For the processing of water- and solvent-based inks the Heidelberg ICS is equipped with powerful and highly economical hot-air dryers.



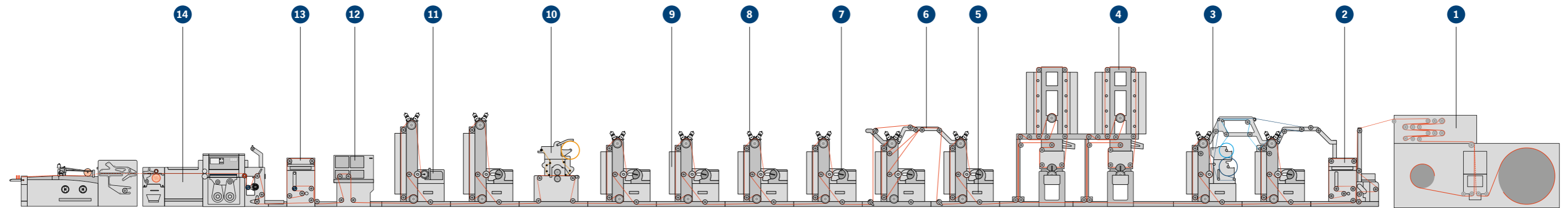
With screen printing you achieve outstanding haptic effects. The printing of security inks or micro particles like glitter is easily processable with screen printing.



Rotary hot foil embossing - The unique inline solution for cosmetics, confectionery and tobacco.



High embossing forces ensure particularly fine, detailed micro embossing and uncompromising finishing quality.



1 Non-stop unwind

The unwind ensures easy and automated material handling. The integrated splice preparation guarantees non-stop operation.

2 Machine infeed

The web guide guarantees precise register accuracy for subsequent processes. The integrated dancer roller ensures constant web tension. Web cleaner and corona pre-treatment are optionally available.

3 Laminating and cold-foiling module

The cold foiling module works in conjunction with the preceding printing unit which optimally prepares the finishing by applying adhesive.

4 Gravure printing unit

Minimum waste through a sophisticated web path with dryer options, the use of cylindrical printing sleeves, oscillating doctor blades and comfortable change trolleys set standards in efficiency and user friendliness. The automatic web length compensation allows flying job changes.

5 Easy-value-add platform (EVA platform)

The EVA platform is the basis for the outstanding modularity of the ICS. Various printing and finishing modules can be easily mounted onto the platform.

6 Backside printing

Through appropriate web guidance backside printing can be realized in each printing unit.

7 HiDef flexo printing unit™

The HiDef flexo printing™ technology is a guarantee for excellent printing results over the entire job.

8 UV system

The highly efficient UV system provides fast UV curing. The integrated chill rollers avoid an excessive temperature increase of the web.

9 Hot-air dryer

The integrated perforated nozzle dryers provide a 20% higher direct web coverage than conventional slot nozzle dryers.

10 Embossing station with hot-foil module

The embossing station with optional hot foiling module combines hot foil embossing and hot foil stamping in a single unit. The automatic speed dependent printing pressure adjustment makes the embossing station highly efficient.

11 Screen printing module

With screen printing you achieve brilliant special effects with metallic colors like gold and silver and apply tactile effects such as braille, symbols or logos with an ink layer thickness of up to 300 µm.

12 Master control station

The intuitive control concept and process-oriented operator guidance reduce setup times and increase productivity.

13 Machine outfeed

The outfeed unit maintains web tension and prevents register variations by isolating downstream processes.

14 Flatbed die-cutter Heidelberg FCL

By directly integrating die-cutting in the inline process, manufacturing your print jobs from roll to finished die-cut blank in a single pass becomes reality.

→ heidelberg.com/ics/technical-data



For unrestricted readiness for use:
Fitness checks and preventive maintenance.

- Regular maintenance keeps your machine in top condition for daily production
- Customized maintenance plans break down maintenance tasks
- Fitness checks serve to identify wear parts
- Elimination of faults before they lead to downtimes and early determination of service part requirements

→ heidelberg.com/en/ics/service

Revolutionary combination printing. Value-adding made easy.



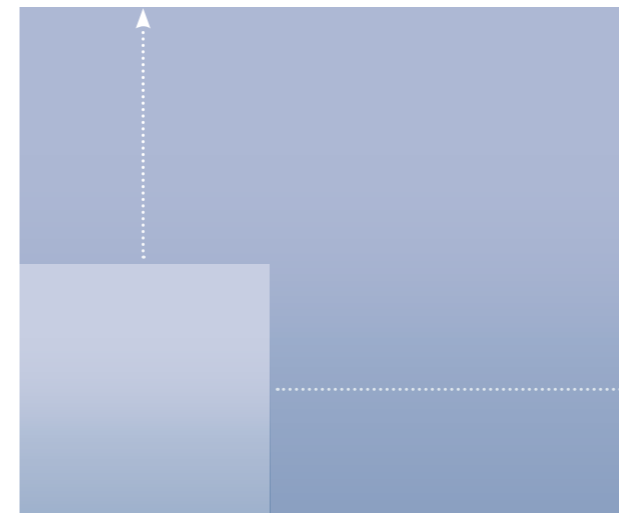
With the ICS billions of highly decorated folding cartons for cosmetics, health and body care, pharmaceutical, confectionery, tobacco and many other industries are produced per year.

The alternative solution for highly-finished folding cartons. Perfect. Fast. Efficient. Top quality printing, intense colors and finishing with extravagant effects is particularly required in the cosmetics, tobacco and food industry. Laminating of metalized or transparent foils often combined with backside printing and hot foil embossing not only makes packaging more attractive but also opens up an enormous potential for savings to be made thanks to the inline process. Applications in the food, confectionery and tobacco sectors often also require tactile effects that appeal to the senses. Water-based inks are another requirement unique to these industries.

Finishing makes the difference. Using our unique inline converting solutions, value-added packaging and folding cartons are produced from roll to die-cut blanks in a single pass. In addition to die-cutting, various other finishing processes that when done offline are time consuming and cost-intensive can be included inline. Gravure printing, hot foil and cold foil applications, laminating and screen printing can all be integrated smoothly using standard modular units. Moreover, with our webfed solutions you can even process water-based and UV inks individually or in combination. Get ahead of your competition. Serve your customers quicker and reduce costs with our unique inline converting system.

Up to 850 millimeters (33.5 inch). Versatile in format and finishing.

Print formats ICS 670

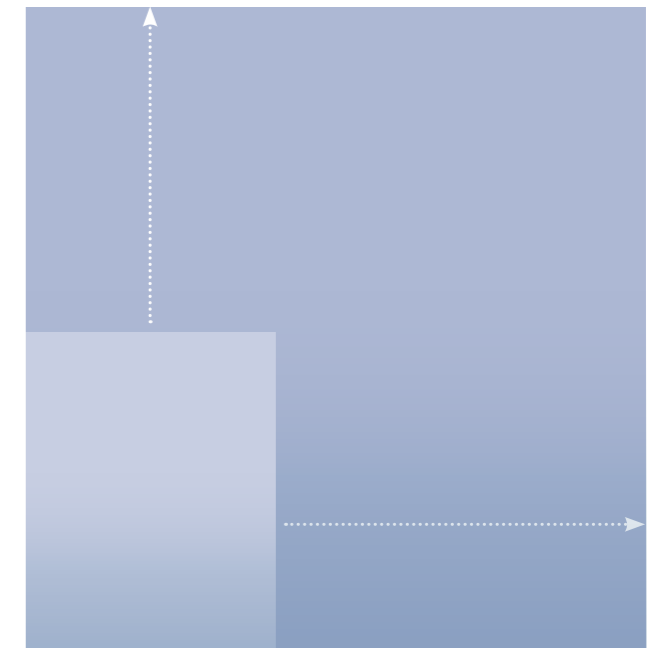


330 x 330 mm to 820 x 670 mm (13 x 13 in to 32 x 26 in)

Flexible configuration. Like the proven ICS 670, you can adapt the Heidelberg ICS 850 flexibly to your needs. You will have the benefit of easy-to-change printing, value-adding and postpress modules and excellent print quality. The folding carton press ensures stable processes throughout the job. Additional features are the press's outstanding production efficiency, minimum waste and ergonomics.

Larger operating width for higher output. The new Heidelberg ICS 850 inline converting system has a large, impressive operating width of 850 millimeters (33.5 inch), reliably increasing your output by up to 30 percent. Different operating widths for diverse applications.

Print formats ICS 850



330 x 420 mm to 820 x 850 mm (13 x 16.5 mm to 32 x 33.5 mm)

Meeting any challenge – today and tomorrow. The open interface architecture ensures that integrating and retrofitting new modules and printing methods is easy – whether today or in the future.

Benefit from our long-term experience. Based on our decades of experience in the folding carton business, we even manage the most challenging installations worldwide. In cooperation with you, we will find the customized webfed solution that works perfectly for you.

Single pass production. Flatbed die-cutter Heidelberg FCL.



Versatile challenges in packaging production require a proven and even future-proof machine concept. The optimization of the overall process of folding carton production is the dominant issue in the industry today and in the future. Differentiated consumer buying behavior results in a wider range of requirements for packaging. The trend is not only towards shorter run lengths. More economical and efficient production and more automated quality and efficiency control are necessary in the future and can only be implemented in machines and workflow. Using our inline converting system with its integrated quality control and high degree of automation, creating one simple workflow for your print shop is extremely easy. From roll to finished die-cut blank – that's simplicity!

High-performance webfed solution that perfects your production process. Ultimately, only performance counts. With this in mind, we designed the Heidelberg FCL die-cutter for superior performance and years of rugged service. With the Heidelberg FCL, production speeds of up to 220 m/min (720 feet/min) can easily be realized. With a die-cutting force of up to 250 tonnes, particularly sophisticated embossing and creasing processes are easy to produce. The Heidelberg FCL processes all common paperboard types, whether virgin or recycled board, laminated or not. A technical highlight of the flatbed die-cutter is the patented servo-driven travelling feed roll unit at the die-cutting section. This feature ensures the highest possible production speed even when processing sophisticated materials. Affordable die-cutting tools as well as fast and easy job and tool changes are the ideal conditions for using the Heidelberg FCL even for smaller job sizes.

A partnership that pays off. One-stop shop.

The safety of your investment is our priority. This we guarantee with continuous innovations and our everlasting promise on the quality of our machine systems. Based on our innovative strength and long-standing industry experience we optimize and/or expand your system with you, so that you exceed the requirements of the market and your customers even years later. Thus we secure your competitiveness.



One-stop shop

Our experts know what is important to you. That's why we don't just recommend and supply what you need. We also show you how to use it more effectively. A one-stop shop for unique, comprehensive portfolio – with solutions that will give you a decisive advantage.

Simply get in touch.

Your dialog with Heidelberg.

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



We look forward to hearing from you!

Get in touch with us for more information, a customized offer and everything else about Heidelberg and the ICS you would like to know. We will be happy to give you a live presentation of our products' performance. Arrange for a demonstration and see for yourself.

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