



Peak performance webfed solution. **Heidelberg Intro.**



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/intro/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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Powerful and economical. **Heidelberg Intro.**

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

Whether you print and finish paper or carton board, the Heidelberg Intro gives you the highest throughput and meets your requirements towards print quality with safety and precision. The inline flexo press Heidelberg Intro processes your print job in a single pass from roll-to-roll or to finished die-cut blank. All that at a realistic power range of up to 600 m/min (1,970 feet/min).

The ergonomic design, the intuitive operating concept and easy accessibility make the Intro one of the most user-friendly machines in its class.

In combination with our comprehensive service portfolio, the Heidelberg Intro is the ideal choice for the economical production of folding cartons, packaging for liquids and lottery tickets.

➔ heidelberg.com/en/intro

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.

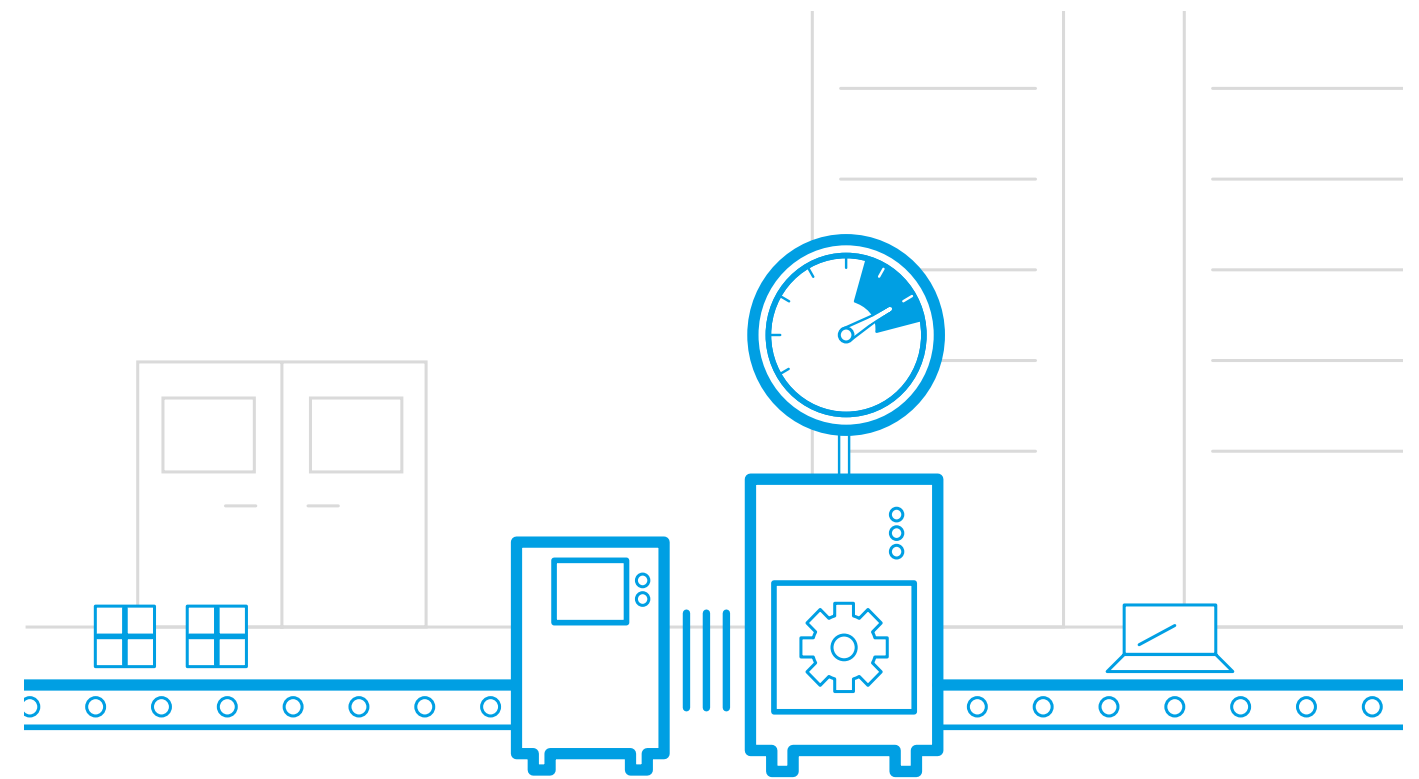


Efficiency at the touch of a button

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. 20 clear advantages*.

You can find more about the economic and efficiency benefits of the Heidelberg Intro including operating data, sample calculations, and application testimonials here:
➔ heidelberg.com/intro/efficiency



Makeready

30 %

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

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

50 %

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

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



3 mins.

for a six-color job change.

Productivity

Realistic production speeds up to

600 m/min. 1,970 feet/min.

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

Up to

3 billion

die-cut blanks per year.



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

Achieve

100 % productivity

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

20 %

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

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.

Availability & maintenance

Preventive maintenance avoids up to

50 %

of all possible equipment failures.

The **integrated maintenance assistant** supports the operator and provides expert instructions that reduce the maintenance effort by up to

25 %

Environment

The **automatic air recirculation and temperature control** ensures optimal production conditions combined with the lowest possible energy consumption.

Efficiency

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.

Up to

10 %

cost savings due to cheaper roll material compared to sheetfed.

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

17 %

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

40 %

Energy savings of up to

13 %

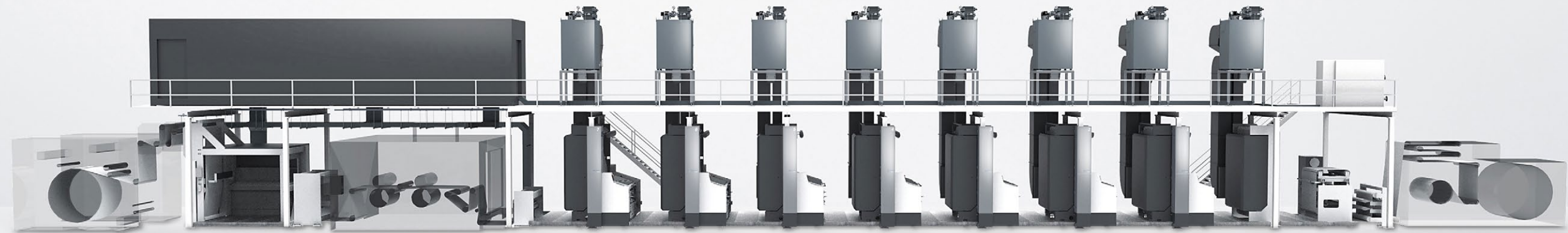
due to recently developed **humidity control.**



* See reverse

Outstanding characteristics. The facts at a glance.

A machine that is consistently designed for maximum performance and efficiency. The smooth interaction of HiDef flexo printing™ quality and printing speeds of up to 600 m/min (1,970 feet/min) combined with highest operator friendliness.



Equipment:

- Consistent servo-drive technology
- 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 systems
- Required additional units to complete the entire system can be integrated easily and reliably

Highlights:

- With printing speeds of up to 600 m/min (1,970 feet/min) the Intro is the productive solution for web carton converting
- The HiDef flexo printing™ technology ensures outstanding print quality throughout the entire job
- The robust machine frame guarantees smooth running, reliability and high availability
- Ergonomic machine design and easy accessibility enable smart operation and make the setup process easy manageable
- Various value-adding processes such as laminating can be easily integrated into the inline process
- The Intro is able to process water-based inks, UV inks or solvent-based inks individually or in combination
- Print widths from 550 to 1,650 mm (21.6 to 65 inch) are realized tailored to your requirements

➔ heidelberg.com/intro/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

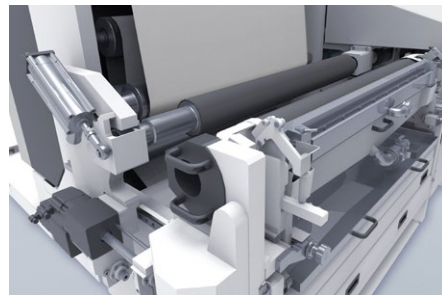
➔ heidelberg.com/en/intro/service



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)

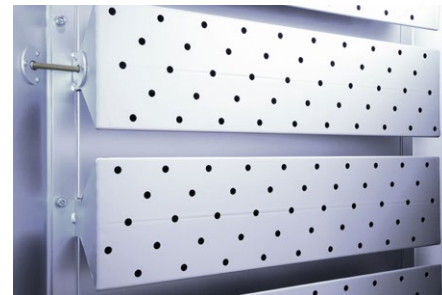
➔ heidelberg.com/en/saphira-coatings



The solid design of the printing unit prevents vibrations and ensures the highest print quality.



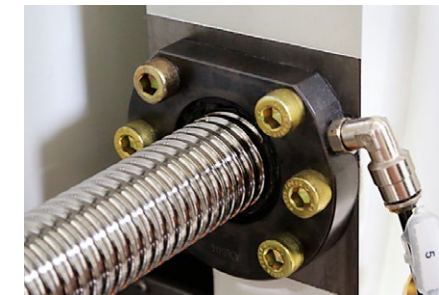
High-performance UV systems are implemented to ensure very high production speeds. Inert solutions are available.



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



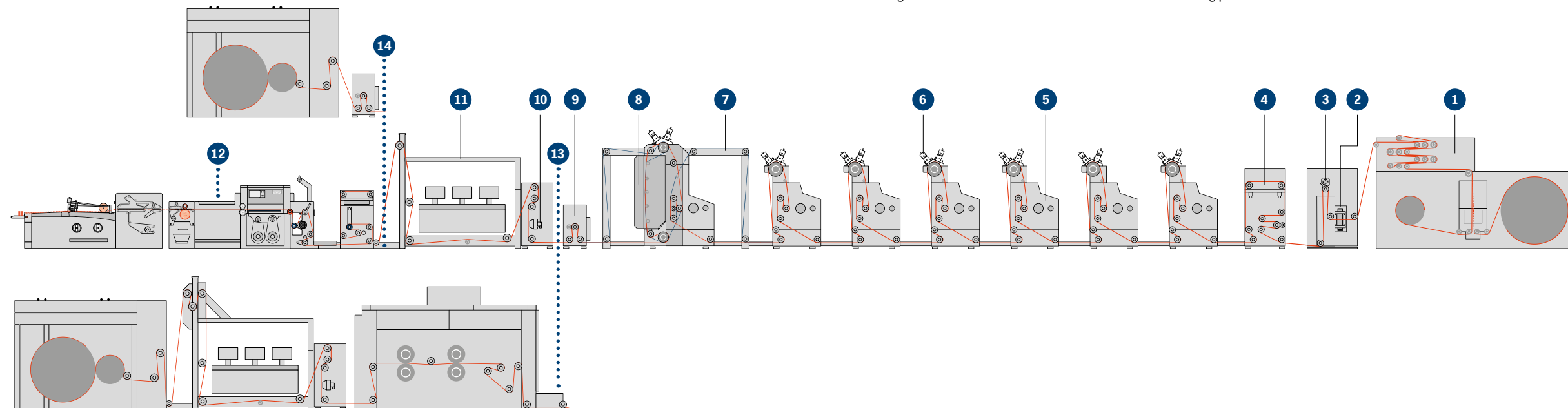
The camera-based register control uses micro dots at each station. These marks can be placed anywhere on the print image to save material. The free printing area normally reserved for the block and wedge marks becomes obsolete.



The integrated central lubrication on the drive and operator side of the machine considerably simplifies maintenance and cuts the service time. Maintenance work can even be performed during production.



Electronic components are stored compact, easily accessible, free of dust and at a constant temperature in the e-container.



1 Non-stop unwind

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

2 Web cleaner

The integrated web cleaner even removes the smallest particles from the web and thus reduces waste to a minimum.

3 Corona pre-treatment

The corona pre-treatment optimally prepares the web for subsequent processing.

4 Machine infeed

The web guide guarantees precise register accuracy for subsequent processes. The integrated dancer roller ensures constant web tension.

5 HiDef flexo printing unit™

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

6 UV system

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

7 Backside printing

Through appropriate web guidance backside printing can be realized in each printing unit. Optionally a turn bar is available.

8 Hot-air dryer

With the highly efficient hot-air dryers production speeds of up to 600 m/min (1,970 feet/min) can be reached. The integrated perforated nozzle dryers provide a 20 % higher direct web coverage than conventional slot nozzle dryers.

9 Machine outfeed

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

10 Web inspection

Web observation and inspection systems monitor the printing process even with the fastest web speeds and assist the operator significantly in achieving reliable and high-quality printing results.

11 Inspection cabin & master control station

The master control station connects the machine with the existing systems. It combines comfort with extensive diagnostic features. An intuitive control concept and process-oriented operator guidance reduce setup times and waste and increase productivity.

Possible machine configurations

12 Heidelberg Intro + flatbed die-cutter Heidelberg FCL

13 Heidelberg Intro + rotary creaser and rewind

14 Heidelberg Intro + non-stop rewind

→ heidelberg.com/intro/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/intro/service

Setting standards. Liquid packaging.



Flexible solution in the challenging environment of liquid packaging. With the Heidelberg Intro every year billions of different high-quality liquid packagings are produced worldwide. Product variety, standardized packaging sizes and frequent motif changes characterize the production. Paramount cost factor in the area of liquid packaging is the high quality of the coated carton board. Therefore highest printing quality, reliability and low waste are important criteria for a successful production. The Intro allows short delivery times, realizes just-in-time manufacturing and reliably meets all requirements regarding food safety.

Heidelberg and the Intro set industry standards for liquid packaging. With its inline design, the Heidelberg Intro can be configured to a variety of industry requirements. In particular, the combination of water-based inks and high-performance drying systems at high production speeds and low waste value the Heidelberg Intro as an economic solution for the production of liquid packaging. Experience in numerous installations, both individual

customers as well as large multinational corporations, predestine Heidelberg as your ideal partner for liquid packaging applications.



Elopak produces liquid packaging for a variety of customers with the Intro. Each year, the manufacturer produces over 13 billion blanks at several locations.

Master of material and format. Folding cartons.



Billions of medium to large-sized packaging such as beverage carriers, detergent and beverage packaging as well as tissue boxes are produced each year with the Intro. In addition, the Intro is ideally suited for the production of food and non-food packaging such as paper plates, cups or pizza boxes.

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. Economical and efficient production with reliable quality are the needs of the future. Packaging manufacturers also face the challenge to develop from an environmental point of view lighter, thinner and more material-efficient packaging.

Heidelberg Intro – ideally suited for various materials and job volumes. For both the current and future needs of the packaging market, you are well positioned with the Heidelberg Intro. Along with the wide range of processable materials, working widths, intelligent quality control and flexible software modules the Heidelberg Intro is your distinct advantage in the competition.

Process reliability guaranteed. Lottery tickets.



Process reliability and consistent print quality are paramount. When it comes to lottery tickets short runs and processing of variant rich graphics and special colors (such as scratch-off coatings) are particular challenges. Often a multi-layer ink application is required beyond. Another requirement of the industry is the accountability for each ticket.

Heidelberg and the Intro set standards with one of the world's largest web presses for lottery tickets. A total of 24 printing units and an overall length of over 100 meters speak for themselves. The Heidelberg Intro stands for short changeover times and high process stability. The perfect print quality combined with excellent drying performance and individual web temperature control make the Intro the ideal machine for the printing of lottery tickets. The 100% inspection in conjunction with web video systems ensures highest printing quality and process reliability. Our experience is based on the intense cooperation with the leading suppliers in the industry. For more than 10 years we are partners of the lottery industry and know the customer-specific challenges and processes in detail. Rely on the Intro and Heidelberg as solution provider for your lottery ticket application. Invest in a high-precision machine system that is already established in the market and has proven itself in daily production.

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 Intro 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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