

The next big thing in high volume packaging.

interpack 2023

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HEIDELBERG: The Company. Market segments and key points.







Employees

170 years

Reliable and highly innovative partner for more than 170 years



Global reach Sales & service network at 250 locations in 170 countries



HEIDELBERG is shaping the printing industry. Driven by the market.



Customer needs are our guiding principles.

With **increased automation** we help our customers be **more efficient** and deal with an increasing lack of qualified staff. Digitization allows our customers the optimization of their workflows as well as increased connectivity



Our solutions: Clear answers to the essential challenges of the market.

Cost pressure

\$

Higher productivity through automation Lack of qualified personnel

Increasing digitization

Increasing demands regarding sustainability

Resource conservation

HEIDELBERG

We continue to evolve printing business and explore business areas.



Shaping the printing market

Expand within **packaging printing** and go for **digital** in commercial printing.

Optimize workflow of the **printing** process, also beyond (sheetfed) printing presses.

Expand share of recurring revenues through lifecycle business. **Explore** new adjacent business areas

EV-Charging business, as the first step in this segment, benefitted from technology synergies to the core business.

New business fields must:

- Address megatrends
- have a critical **market size**
- and fit the capabilities of HEIDELBERG

Creation of value finance HEIDELBERG future



A growing market: Packaging and label printing.

Increase of printing volume of

+2,3% in the packaging market worldwide (PPV)

Globally increasing demand for packaged goods

due to the growing world population

Increase of the share of folding boxes

from € 69 to € 76 billion

in the overall PPV until 2027.

Strong trend towards

zero waste

and water-based inks

Source: Heidelberg bn. Euro, constant 2009 prices & exchange rates



We support our customers along the folding carton production chain. End-to-end.

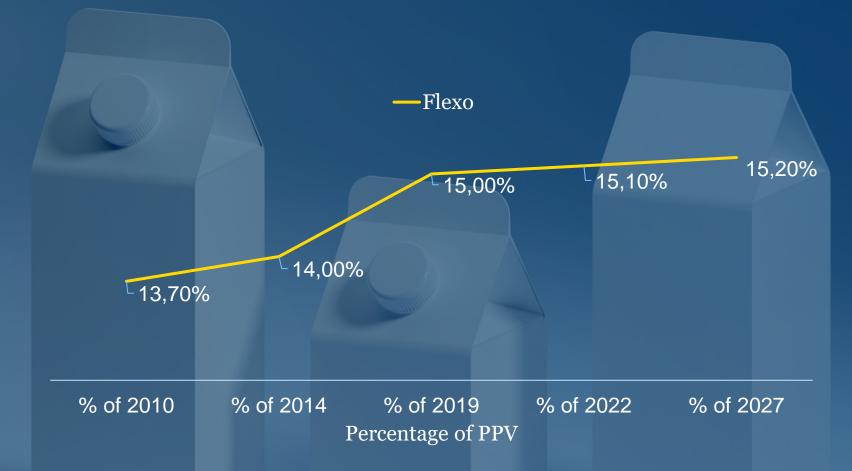
We continuously extend our product range along the production process...



... and pursue other growth areas with new technologies.



Flexo on a growth course in the folding carton market.



Source: Heidelberg estimate – October 2022, industry statistics, PIRA, RISI, S&P Global Insights



Introducing non-stop production. Engineered in Weiden. The new HEIDELBERG Boardmaster.

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Flexo solutions made in Weiden.

HEIDELBERG

A history of pioneership

- 100 specialists
- Several decades of flexo printing experience
- Founded in 1993

The flexo division withinTeothe HEIDELBERG Groupflex

Since 2014 part of HEIDELBERG family Technology leader in flexographic printing

- Design, assemblance and installment of innovative inline flexo printing presses and die cutters
- Drying systems
- Embellishment solutions
- Data collection and analysis
- Sales & services



Flexo printing: A segment on the rise in folding carton production.

2,4%

annual growth of flexo printing in the folding carton production value.

15%

of the folding carton value is currently produced via flexo.

Source: Heidelberg bn. Euro, constant 2009 prices & exchange rates

How the Boardmaster answers the markets most urgent requirements.



Efficiency

- Improved OEE with flying job change -Push to Stop
- Non-Stop operation
- 50% less maintenance costs due to fewer moving parts

Quality and Safety

- Easy to use
- Globally accepted print quality
- Safety during job changes
- High level of automation (Intellimatch)



Sustainability

- Significant less
 energy consumption
- Less start up waste
- Waterbased inks



HEIDELBERG

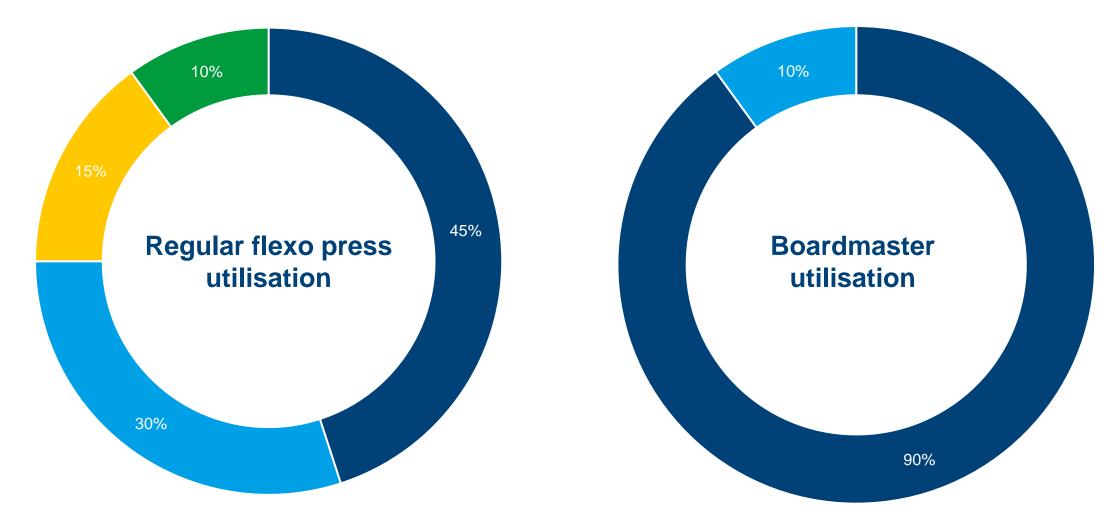


Modularity

- Investment security for customers
- Optional inline value adds: Flat bed die cutter, laminating, cold foiling



A new era of efficiency in folding carton printing. Doubling productivity while reducing costs.



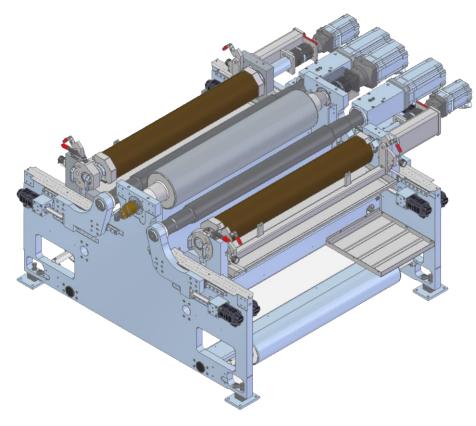


The art of productivity. Simplicity through technology.

Up the street of the second of



A revolutionary print deck design.



Non-Stop Print Deck

- Less start up waste
- Shorter web length
- Autonomous print settings
- Non-Stop operation
- Better ergonomics
- Reduced footprint
- Significantly less energy consumption
- Operator friendly due to compact design



Intellimatch: The fully automatic offline sleeve scanner that ensures quality.

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A new dimension in high volume folding carton printing.

The first Flexo Printing Press with ZERO changeover downtime.

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The next big thing in high volume packaging. The new HEIDELBERG Boardmaster

Thank you for your attention. Any questions?

HEIDELBERG Boardmaster – Fact Sheet.

- Max machine speed 600m/min equal to 38.000 Sh/h, Option up to 800m/min equal to 48.000 Sh/h
- Print width
 850mm (33 in), 1020mm (40 in), 1400mm (55 in), 1650mm (65 in)
- **Repeat range** 405/480... 1070 mm (15,95 /18,90 ... 42,1 in)
 - Running direction right to left OR left to right
- Substrate width up to 1670mm (up to 65,7 in)
- Substrate weight
- Substrate caliper
- Printing method

- 70-800 g/m² (17 ... 164 lbs / MSF)
- from 95 up to 1.016µm (4..40pt)
- Flexo (HiDef flexo printing)



HEIDELBERG Boardmaster – Fact Sheet.

- Backside printing
 Yes, possible in every print unit, just change the web path
- Ink systems
 Water-based inks / UV-inks (no ink/water balance, no powder)
- Drying Hot air / UV curing
- Optional value adds (inline)
- Machine configuration
- Ideal combination with
- Max cut speed
- Cut width

- Laminating, Cold foiling, digital imprint, rotary embossing, screen printing
- Roll to roll, roll to sheeter, roll to cutter
 - Heidelberg FCL Flat bed die cutter, Inline or Offline
 - 25.500 Sh/h (300m/min)
 - 850 1400mm