



The K630i book block production solution



For cost-effective and highly productive monochrome book block production

Domino. Do more.

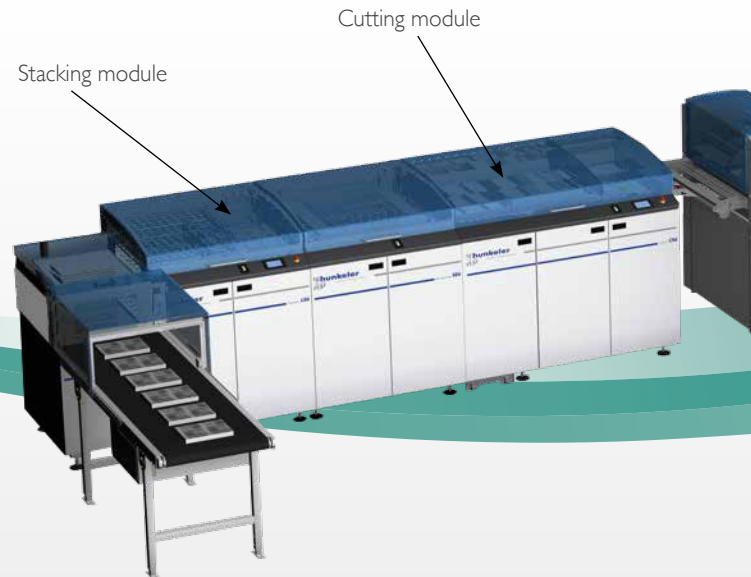
High-speed variable format solution

Domino's **K630i** high speed, compact, single engine duplex ink jet printing press integrated with Hunkeler web processing equipment provides a flexible, efficient and highly productive print and processing solution for delivering book-blocks at fully variable speed.

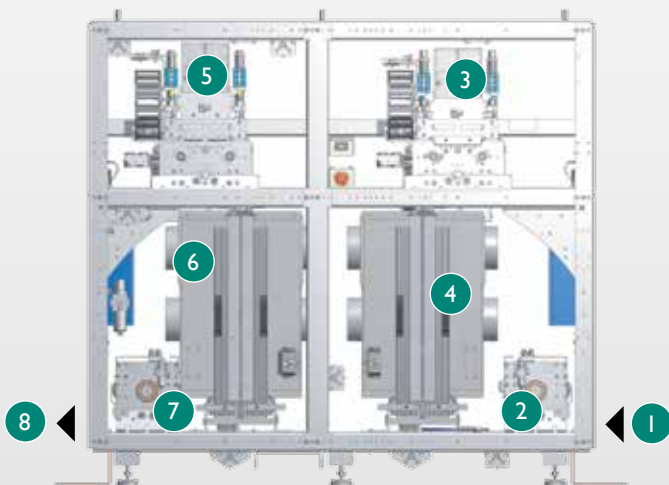
This modular solution can print on a range of paper stocks taking full size rolls of up to 540mm wide.

Key Features

- Fully variable print speed up to 150m/min
- Can produce up to 4.6m books per annum
- Up to 540mm wide full size rolls
- Rich black quality
- Minimal material waste
- Small compact footprint



K630i Single Engine Duplex



Book block production speed up to 128m/min (420ft/min).

Paper weights 60gsm–150gsm, (40lbs–100lbs).

Folds 1–2 plow folds, 2 to 4 layers.

Folding Types – parallel fold, roll fold, double parallel fold.
Format length 150mm–330mm (6"–13").

Book block thickness up to 50.8mm (2").

Stack height max 120mm (4.75").

Key to illustration

- | | | |
|-----------------------|---------------------|----------------------|
| 1. Web In | 4. Recto Dryer | 7. Outfeed Nip Drive |
| 2. Internal Web Guide | 5. Verso Print Bars | 8. Printed Web Out |
| 3. Recto Print Bars | 6. Verso Dryer | |

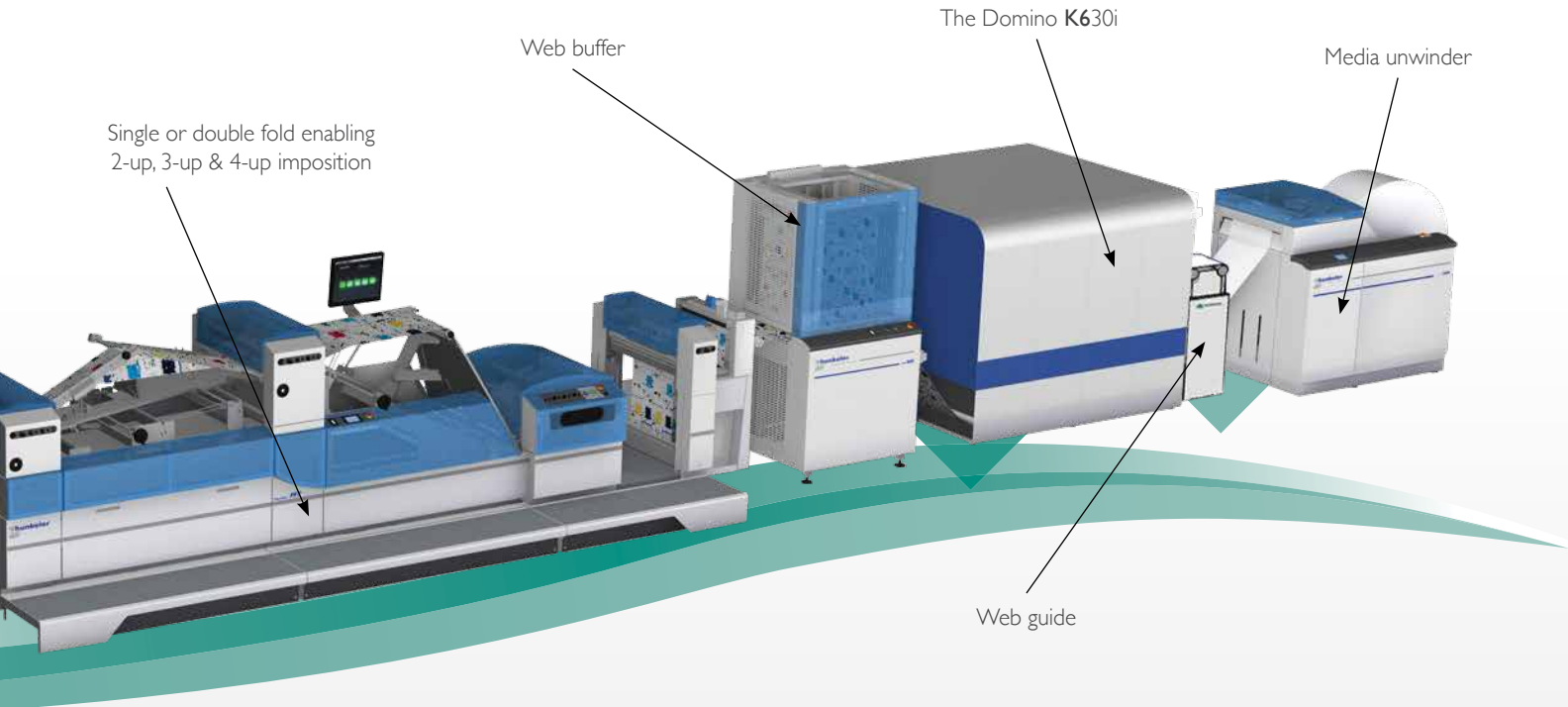
Simplex configuration excludes 5. and 6.



Highly Productive

The highly productive Domino K630i solution with fully variable print speed up to 150m/min, can produce up to 1.4bn pages per annum, a range of substrates in 2-up, 3-up or 4-up imposition.

The complete line can be run by less than 2 operators providing high productivity with low operating costs.



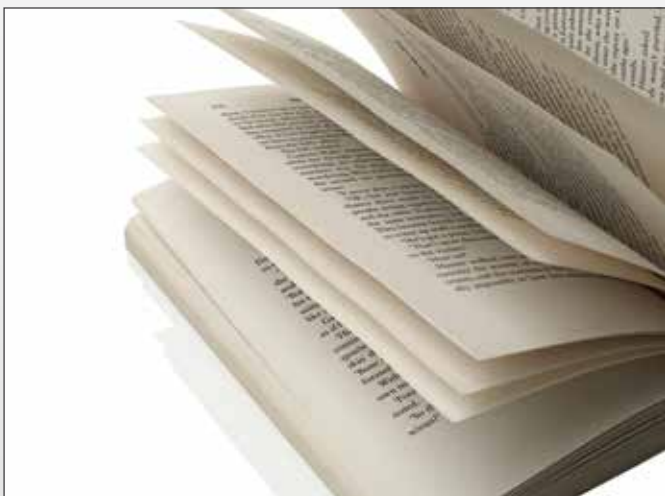
Single or double fold enabling 2-up, 3-up & 4-up imposition

Web buffer

The Domino K630i

Media unwinder

Web guide



Book Blocks Applications

The book block solution for up to 21"/540mm web widths offers advantages because of its flexibility. The use of the double plow folder (PF7) processes the continuous feed web into 4, 6 or 8 page signatures, and with the proven cross cutter (CS6), offset separator (SE6) and stacker (LS6) gives new possibilities in book and document production at speeds of up to 128m/min (420ft/min).

The book block solution is distinguished by high flexibility, fast and easy changeover, and excellent book block quality. Offset stacked book blocks are produced, several at a time, on demand in variable format sizes, thanks to fully automatic longitudinal format changeover. Printed and stacked book block output can be perfect bound near-line, with a barcode checking system to ensure proper book block to cover matching.

Domino. Do more.

Technical Specifications

The K630i monochrome printing press

Technology

- Piezo Drop on Demand ink jet

Printing Speed

- Up to 75m/min or up to 150m/min
- Simplex or Duplex

Print Resolution

- 600 x 600dpi native

Inks

- Aqueous Pigment 18.9 litres (5 US gallons)

Print Width

- 333mm, 445mm or 540mm

Web Width

- 540mm

Print Format

- Normal Speed: Print 4 levels @ 50m/min; 3 levels @ 75m/min
- High Speed: Print 4 levels @ 100m/min; 3 levels @ 150m/min
- Simplex or Duplex
- 4 level Greyscale drop size 5pl, 8pl, 12pl, 18pl (aqueous)

Media Type

- A range of paper stocks

Digital Front End

- Open source integration with all leading OEM DFEs
- pdf, ipds formats

Options

- Simplex or Duplex Operation
- Finishing: Unwind/Rewind interface for integration with leading OEMs
- Corona (UV only)

Central Print Module

- IR dryers
- Web guide module
- Tension control with in and out nip rollers

Dimensions

- K630i printing section 1.93m x 2.22m
- Power cabinet 2.10m x 0.9m
- Web treatment module
- 10L ink supply unit 1202mm L x 807mm H x 520mm W

Weight

- K630i printing section nominal 1500kg
- Power cabinet: 350kg
- Web treatment module: 250kg
- 10L ink supply unit 200kg

Services

- Three phase power – single 400v 100A drop
- Compressed air – single drop @ 6-8 bar, clean and dry
- Extraction – single drop from print section.

Environment

- Optimal temperature range 21°C +/- 1°C (70°F +/- 1°F)
- Optimum humidity 40-60%
- Dust controlled environment preferred

Book block solution line with Double Plow Folder PF7 and High Speed Cutter (CS6-HS)

Max. Roll Diameter

- 54" (1370mm)

Web Width

- 6.5" - 20.5" (165 - 520mm)

Production speed

- up to 160m/min (533ft/min)

Paper Weights

- 40 – 300gsm (27 – 110 lb offset/book)

Folds

- 1 to 2 plow folds (2 to 4 layers)*

Format Length

- 5 1/2 – 19" (140 – 482mm)

Variable chip out

- 1/4 - 2 3/4" (6.3 - 70mm)

Stack Height

- up to 9 7/8" (up to 250mm)

Applications

- 1 up - 4up

*Folding types: Parallel fold, roll fold, double parallel fold

