DOMINO

The K630i digital booklet production solution

White paper in - finished booklets out;
Up to 7,000 booklets per hour

Domino. Do more.

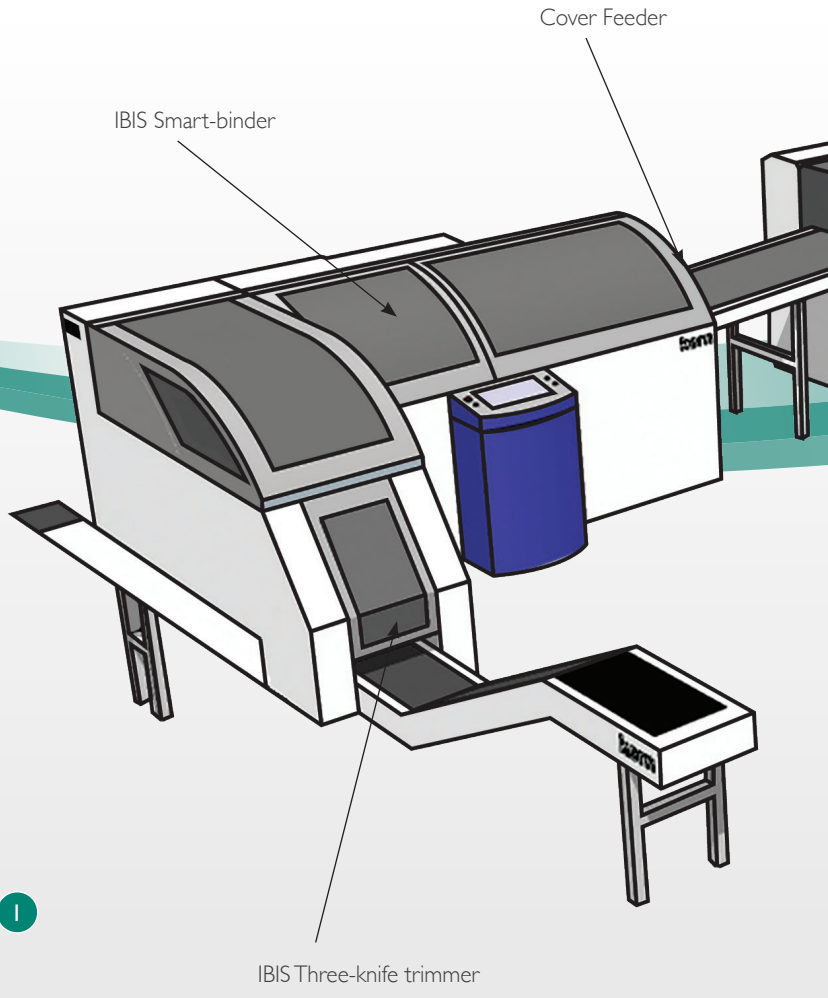
High-speed variable pagination solution

Domino's **K6**30i high speed, compact, single-engine duplex ink jet printing press integrated with Kern's pre-processing equipment and IBIS Smart-binder provides a flexible, efficient and highly productive solution for delivering multi-page booklets at speeds.

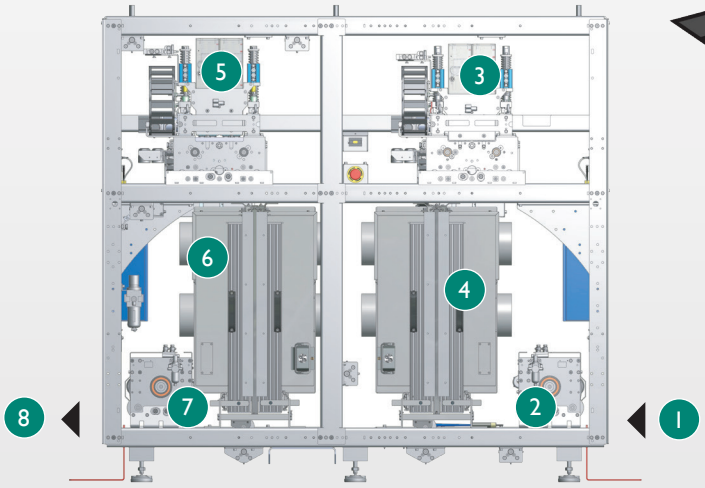
Geared for rapid job change, this '24/7' rated production process can deliver the web at speeds of up to 150m/min and produce finished booklets of up to 200 pages (50 sheets), continuously changing content and booklet page-count on the fly.

Key Features

- System delivers saddle stitched or saddle-glued booklets, with optional cover attaching
- Produces up to 7,000 booklets per hour printing at web speeds of up to 150 metres/min
- Changing content and booklet page count on the fly
- Reduced manning requirements
- Minimise material waste
- Small compact footprint



K630i Single Engine Duplex



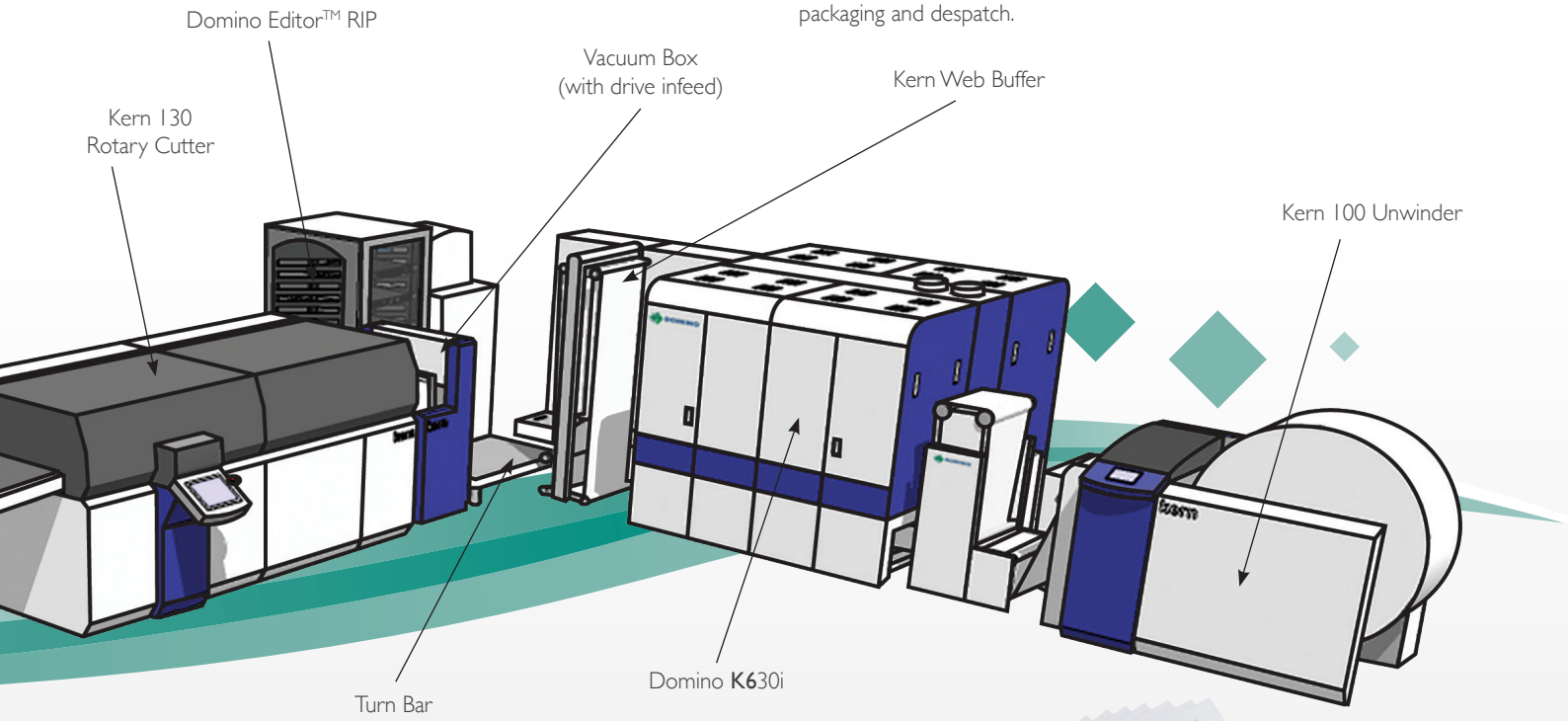
Key to illustration

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

Simplex configuration excludes 5. and 6.

Integrated Process

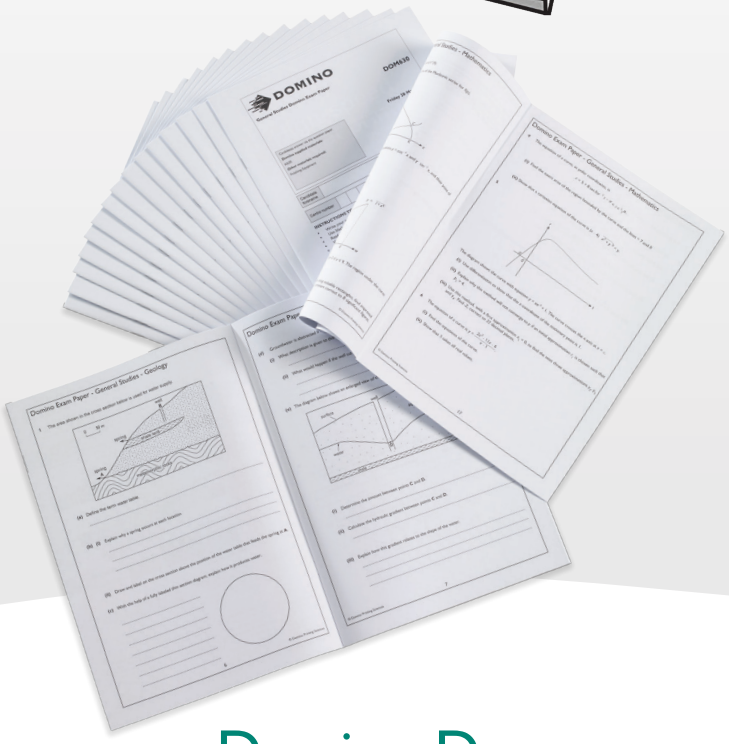
Offering a total white paper solution, the Kern 100 unwinder delivers web media to the Domino **K6**30i continuous feed monochrome production printing press where the relevant booklet content is printed. The Kern 130 rotary cutter then takes the printed web and supplies individual cut sheets to the in-line IBIS Smart-binder which, depending upon the booklet type, folds and either wire stitches or glues the sheets together, and if required, can add a pre-printed cover. Finally the three-knife trimmer cuts the booklet to final size. Booklet is then available for packaging and despatch.



Booklet Applications

The system is completely flexible in that it can be used to produce a range of different booklets up to A4 format, varying continually and dynamically between saddle-stitched or saddle-glued and with or without separate cover irrespective of page size or format.

Product manuals, exam papers, legal documents and forms, instruction manuals, commercial brochures and documents are just some of the many applications where booklets are used everyday, this system delivers real production volumes, without stopping or wasting sheets, highlighting the real production efficiency of the combined system.



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)
- UV curable Pigment 10 litres

Print Width
- 333mm, 445mm or 558mm

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)
- 4 level Greyscale drop size 6pl, 7pl, 11pl, 14pl (UV curable)

Media Type
- A range of coated and uncoated 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 or UV dryers
- Web guide module
- Tension control with in and out nip rollers

Dimensions
- **K6**30i 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
- **K6**30i 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

IBIS Smart-binder SB-3 'Plus HS'

Maximum Input Web speed
- 150 meters/min (or 200 meters/min with extra F-100 folder)

Maximum Output speed
- 7,000 booklets/hour (1-up production) or 14,000 booklets/hour (2-up production)

Input sheet size and cover size
- Width: min 210mm max 320mm
- Length: min 250mm max 464mm

Finished booklet format size
- Book Width: min: 120mm max 225mm
- Spine length: min 210mm max 320mm

Notes: Minimum spine length reduces to 100mm when using the optional trimmer center-knife. Smart-binder model SB-X is available if larger booklet sizes are needed

Book thickness range
- Minimum: 4 pages (1 folded sheet)
- Maximum: 10mm compressed

Booklet edge trim Kern 100
- Front edge: 0 – 25mm Side edges : 0 – 20mm

Wire Staples
- 12mm staple, 0.4 –0.6mm dia round wire (Optional 'Loop Stitching' available)

ISG Cold-Glue
- Eukalin PVA cold glue

Paper stock weight
- Minimum 50gsm (or 40gsm with extra F-100 folder)

Kern Specifications

Cutter Kern 130
- From 5 to 200 m/min (16 to 656 ft/min)
- Pinless and pinfeed
- 3.5" to 64" (89 to 1625 mm)
- 105 to 560 mm (4"2/6 to 22")
- 45 – 160 gsm

Unwinder Kern 100
- From 10 to 250 m/min (32 to 820 ft/min)
- 1372 mm (54")
- 150 – 520 mm (6" - 20.5")
- 700 kg (1500lb)
- 45 – 160 gsm or optional 240 gsm. Other weights on request
- 70, 76, 127, 150 or 200 mm (2.7", 3", 5", 6" or 8")

www.domino-printing.com

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