



# The K630i monochrome printing press



The lowest cost per page high speed continuous feed production printing

Domino. Do more.

## Fast and cost-effective

The **K630i** really is a production beater, with the ability to print over 20 million pages a month, or 36 million metres per annum, with no reduction in print speed, quality or print volume whether in simplex or duplex configuration.

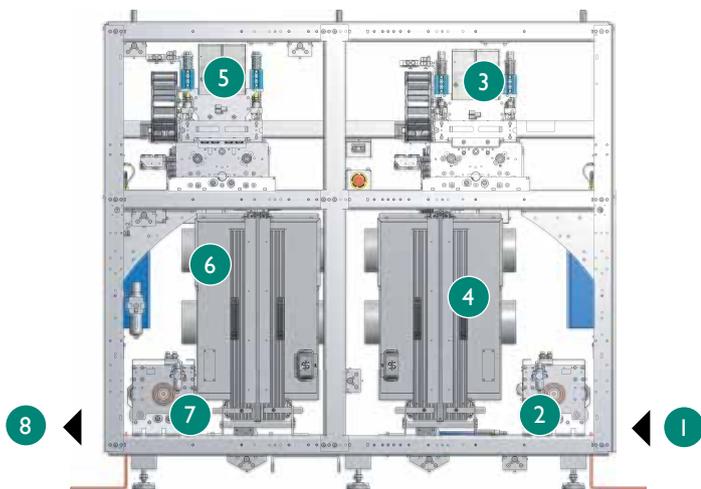
The **K630i** single engine duplex is unique to the industry for a production press of this class – increasing production floor-space availability by at least 50% compared to twin engine devices.

### K630i Production Output:

Output	Standard speed 75m/min	High speed option 150m/min
A4 impressions per minute:	500 (1000)*	1000 (2000)*
A4 impressions per month:	4m - 13m (8m - 26m)*	8m - 26m (16m - 52m)*

\*Figures in brackets refer to duplex

## K630i Single Engine Duplex



### 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.

## Applications

For high-volume users in the transactional and direct mail market, the **K630i** delivers the highest quality at the lowest cost-per-page.

Select between low cost, high opacity, aqueous pigmented black ink or the high impact Domino UV curable ink designed for the widest range of substrate types including high gloss coated media.

For the on-demand book and manuals sector, the near photo quality at high speed offers exceptional return on investment.



### Book printing

For crisp 'blacks', strong solid areas and rich halftones page after page.



### Transactional

High speed data streaming to the **K630i** gets the volume out. Monochrome ink jet imprinting of pre-printed shells provides the lowest cost per page of any transactional printing solution.



### Direct mail

Cost effective volume mailing regardless of % ink coverage. The UV curable ink solution allows a wide variety of industry high gloss coated media to be used.



## Greener Credentials

Domino's commitment and investment in sound environmental practices means we frequently exceed the increasingly demanding governmental, industry and company standards and regulations. We are committed to minimising the consumption of natural resources and energy and the creation of waste. Our products are RoHS and WEEE compliant so that they are recyclable.

### K630i

The **K630i** is supplied with UV curable or aqueous pigmented inks representing an efficient use of our natural resources. Although UV curable inks are chemicals and need to be used correctly, they offer significant environmental benefits compared to solvent alternatives. Solvent inks include up to 95% volatile solvents that evaporate into the environment and require regular print head cleaning. **K630i** UV curable inks contain 1% volatile solvents.

# It's all about lower cost of ownership



## Simple to buy

Domino builds intelligent technology into the system to keep it simple for you to operate. It is simple to buy too - with no expensive or ongoing 'CLICK' charges to pay.

## Pay for what you use

The **K630i** has few consumable parts, and even consumables such as ink and flush are purchased only as required.

**K630i** long-life ink jet print heads operate without failure, generally providing you with more than 12 months high speed full production.

## Use what you need

Utilising the full benefits of piezo greyscale technology, multiple drop sizes and/or resolution may be selected to optimise print quality on any given media. This gives you the opportunity to reduce production costs by controlling ink usage, thereby maximising profit per job. Monochrome ink jet imprinting of pre-printed shells provides the lowest cost per page.



# Reliable consistent print results

## It is just so simple

Compared with other digital printing technologies, piezo ink jet with aqueous pigmented or UV curable ink is a non-contact form of printing with few moving parts.

There are fewer requirements for manual intervention compared to toner based technology. The result is enhanced reliability, greater machine availability and lower support costs.

## Quality

Domino high quality pigmented inks print exceptional solid black and with our use of greyscale ink jet technology allow us to print at 600dpi x 600dpi native resolution, providing excellent halftones and solids.



## Stitching!

All industry standard ink jet solutions require the ability to accurately position multiple print heads in order to enable the printing of seamless images.

The Domino **i-Tech StitchLink** micro-motor controller technology automates this perfectly ... easy, accurate, rapid set-up for printing high quality images without white stitch lines or banding.

# Productivity

## It is quick

With a range of 12 models offering two speeds – 75m/min or 150m/min, in three print widths of 333mm, 445mm or 558mm, and with simplex or duplex options, the **K630i** really is built for the mid-range high volume production.

Its small footprint delivers more print per square metre than any other press in its class – more production for your investment.

## It keeps operating

Domino's unique **i-Tech ActiFlow** ink circulating system ensures that the ink is always moving around the print head, even when the print head has stopped.

**ActiFlow** helps to degas the ink, preventing air bubbles forming that can impact nozzle performance. More time is spent on printing and less is spent on maintenance.



## Automated maintenance

The revolutionary **i-Tech CleanCap** automated print head cleaning and capping technology is a consistent controlled process which reduces manual operator intervention meaning that daily, manual head wiping is now a thing of the past!

# Service

## Domino's heritage

Founded in 1978, Domino Printing Sciences has established a global reputation for the development and manufacture of digital ink jet printing technologies, as well as its worldwide aftermarket products and customer service.

Today, the Group employs 2,200 people worldwide and sells to more than 120 countries through a global network of 25 subsidiary offices and more than 200 distributors.

Domino has more than 600 service technicians providing support for Domino's solutions across the globe. The Domino Service Standard helps to ensure a consistent high level of performance is achieved in every region.



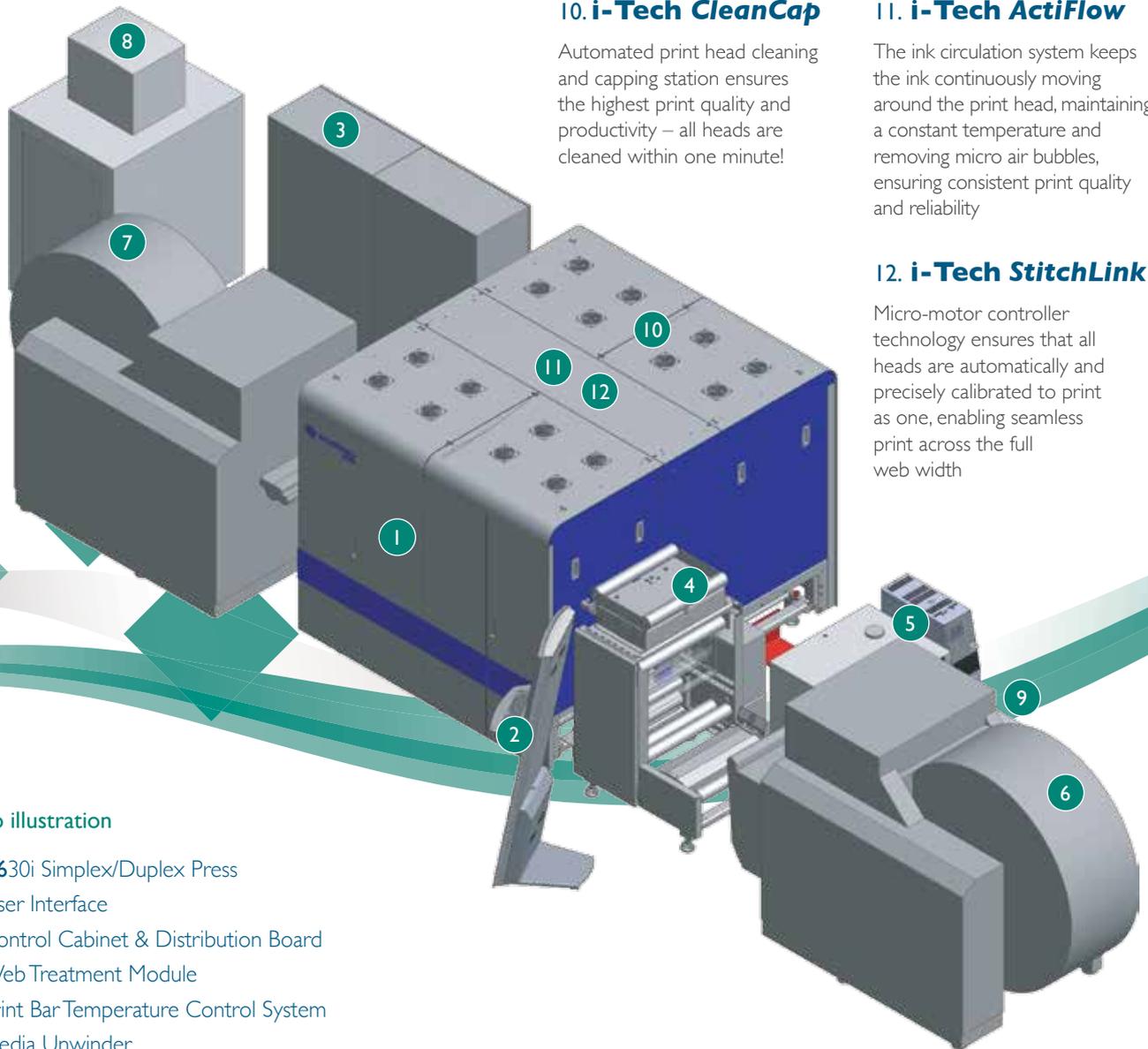
## Workflow efficiency

The optional Domino Editor RIP system communicates directly with host systems to convert customer multipage PDFs and IPDS/AFP data for high-speed printing directly to the **K630i** system..

# A quick tour around the K630i

## *intelligent Technology*

**i-Tech** components combine to create a system altogether more flexible and reliable.



### 10. **i-Tech CleanCap**

Automated print head cleaning and capping station ensures the highest print quality and productivity – all heads are cleaned within one minute!

### 11. **i-Tech ActiFlow**

The ink circulation system keeps the ink continuously moving around the print head, maintaining a constant temperature and removing micro air bubbles, ensuring consistent print quality and reliability

### 12. **i-Tech StitchLink**

Micro-motor controller technology ensures that all heads are automatically and precisely calibrated to print as one, enabling seamless print across the full web width

#### Key to illustration

1. K630i Simplex/Duplex Press
2. User Interface
3. Control Cabinet & Distribution Board
4. Web Treatment Module
5. Print Bar Temperature Control System
6. Media Unwinder
7. Media Rewinder
8. Editor RIP
9. Ink Supply Unit
10. **i-Tech CleanCap**
11. **i-Tech ActiFlow**
12. **i-Tech StitchLink**



### Domino Ink Jetting Assemblies

Proprietary Domino ink jetting assemblies incorporate Kyocera print heads to deliver consistent print results, higher reliability and improved serviceability compared to any other press using Kyocera technology.

## Technical Specification

### 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 and IPDS
- pdf, afp, 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

- 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 @ 8-10 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

Example layout with high speed unwind/rewind

