

# K600

Single colour wide array ink jet printing system



data sheet

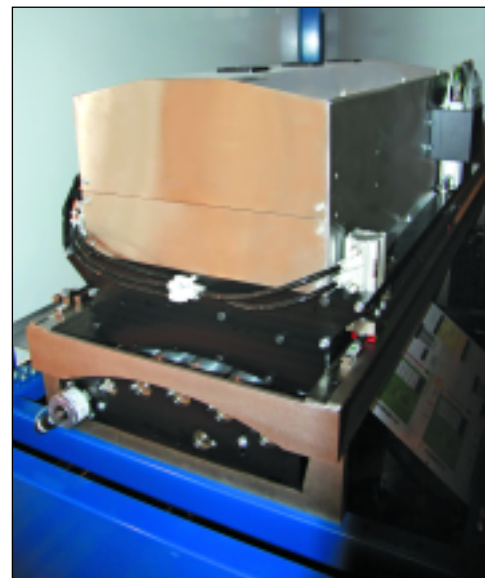
# K600 Single Colour Ink Jet Module

For printers requiring variable data printing, the K600 is the only configurable wide array solution combining high print resolution and productivity with low cost of ownership. This means you can produce a superior product at a competitive rate, in order to increase your sales and drive profitability.

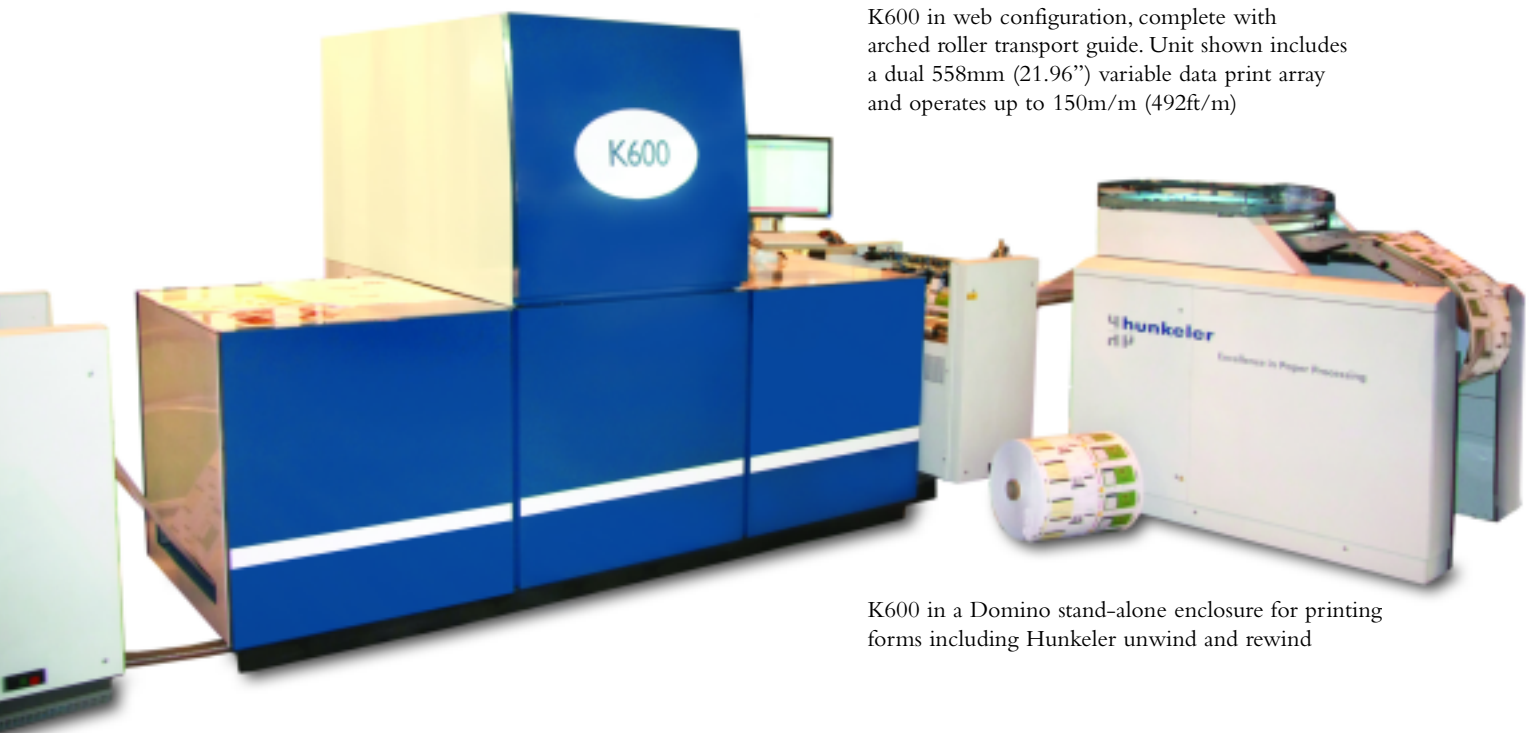
## Single Colour Printing and Imprinting

Variable data printing is commonly undertaken through either multiple remote ink jet print heads located over an existing web or sheet conveyor, or via a self contained toner solution. Remote ink jet print heads are cost effective for part personalisation, including barcodes and numbers, but not designed for large amounts of variable data or for full page printing. Toner solutions on the other hand are more complex, impacting reliability, they are typically charged based upon clicks with a higher cost of ownership.

The Domino K600 is a solution that can both imprint where it is cost effective to personalise a template, but can also print complete documents such as forms, vouchers or single colour labels. K600 ink jet technology is simple, non contact, and involves fewer moving parts. There are no click charges, you are charged only for the amount of ink used.



K600 in web configuration, complete with arched roller transport guide. Unit shown includes a dual 558mm (21.96") variable data print array and operates up to 150m/m (492ft/m)



K600 in a Domino stand-alone enclosure for printing forms including Hunkeler unwind and rewind

## Print Applications

The K600 is designed for integrating on webs and sheets for applications including game cards, forms, vouchers, security products, direct mail, tickets and labels. Variable Data Printing (VDP) includes barcodes, 2D codes, graphics, and addresses as well as transactional data.

## Print Performance

The K600 has a native print resolution of 600dpi including up to four greyscale levels, providing a nominal print resolution of 1200dpi.

The ink jet module can be located in a Domino supplied enclosure, or mounted in-line on an existing web or precision sheet transport. Each solution is based either on a one litre or ten litre ink supply.

Each K600 is specified to meet exact application requirements in terms of print width and operating speed. The most basic configuration includes a single 108mm (4.26") print module, printing up to 75m/m (246ft/m). Mounted within a frame, print modules can be stitched to create an image area up to 783mm (30.8") operating at 150m/m (492ft/m).

Print Module	Image Height	
	(mm)	(inches)
x 1	108	4.26
x 2	220	8.69
x 3	333	13.11
x 4	445	17.54
x 5	558	21.96
x 6	670	26.39
x 7	782	30.81

108mm (4.26")  
x 1

220mm (8.69")  
x 2

782mm (30.81")  
x 7



Standard 75m/m or (246ft/m)



Dual 150m/m (492ft/m)

## Ink Types

### UV curable ink

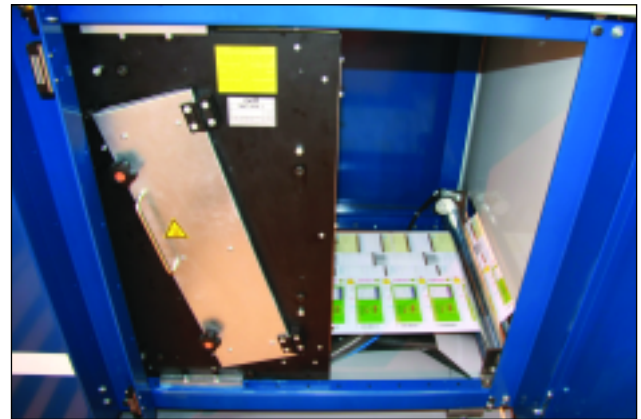
Provides a high impact durable finish that does not require over-vernishing. It is ideal for printing on non-porous substrates including plastics, foil and coated paper. Applications include self adhesive labels and blister packs.

### Aqueous ink

Aqueous ink is cost-effective for printing onto porous and semi-porous substrates. Applications include forms, security products, game cards, direct mail, tickets and transactional documents.



Ink system shown based on 10 litre drum supplies



Infra-red dryer is a common requirement for high speed applications using aqueous inks



Variable data imprinting of games tickets and forms

## Controllers

### Editor GT

With over 2,000 installations, the PC based Domino Editor GT is a proven ink jet and line controller. Editor GT can configure a wide range of third party supplied data files for printing, but can also generate data to meet common requirements including sequential and cut-and-stack numbering. Editor GT does not support grey scale printing and is designed for applications where the data transfer rates are lower and normally involving no more than four print modules.



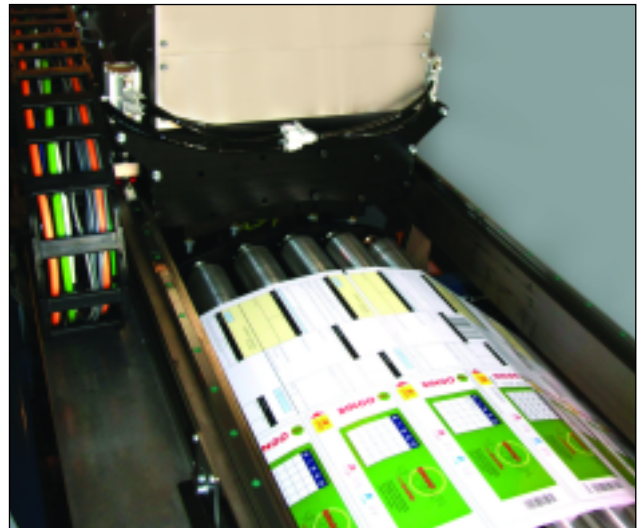
### N600 VDP controller

This is a dedicated ink jet data controller supporting the multi-page PDF data format as standard (IPDS and other formats via a third party interface) The VDP controller supports the full print capability of the K600 including up to four selectable grey scale levels for improved tone and fine text printing. Depending on the K600 configuration, the VDP controller will include multiple PCs for processing in real time large amounts of data.



## Reliability

The K600 is based on non-contact Piezo ink jet technology and benefits from simplicity, with fewer moving parts and consumables for maintenance. Automatic functions including registration cleaning and capping and printhead alignment for registration minimises manual operator intervention. The result is that the K600 provides low operating costs and high Overall Equipment Effectiveness (OEE) relative to other ink jet and VDP technologies.



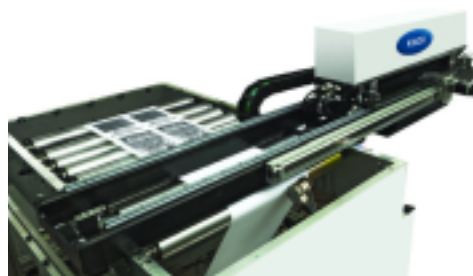
K600 located in automatic cleaning and capping station

## Service Support

Domino has more than 30 years of ink jet technology experience. Today more than 600 service technicians provide 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.

## Integration

Where required, Domino can provide stand alone configurations for web and sheet transport requirements. However, supported by Domino's global project team, the K600 is designed to be integrated into existing web and sheet handling equipment where precise material control is present. This may include supplying complete web extensions, in-line arched roller sections and UV-curing and IR drying units.



K600 fitted to the lead-in to a roller section for printing on a web. This configuration includes a standard 782mm (30.81") variable data print array and operates up to 75m/m (246ft/m)

# Technical Specification

## Technology

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- Piezo Drop on Demand ink jet

## Printing Speed

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- Standard: 50m/m (164ft/m) with four greyscale levels  
75m/m (246ft/m) with three greyscale levels
- Dual: 100m/m (328ft/m) with four greyscale levels  
150m/m (492ft/m) with three greyscale levels

## Image Resolution

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- 600dpi native resolution (nominally up to 1200dpi)

## Image Format

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- 108mm (4.26") to 782mm (30.81")

## Substrate Type

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- Aqueous Ink: porous and semi-porous materials e.g. uncoated paper
- UV Curable Ink: non porous materials e.g. plastics, foil and coated paper

## Ink

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- Aqueous ink: black (custom on request)
- UV curable ink: black, cyan, yellow and magenta

## Ancillary Equipment

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- UV dryer
- Infra-red dryer
- Arched roller section
- Web guide
- Corona unit
- Web enclosure

## Dimensions

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- Standard: 260mm (10.3") in material travel direction (excluding cover)
- Dual: configuration dependent

## Services

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- K600: 110-240v AC 50-60Hz auto ranging
- UV/NIR Dryer: three phase drop, power required is configuration dependent 6 bar air supply

## Editor™ GT Controller

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Windows® XP Controller supporting TCP/IP:

Text: Windows® True Type, Adobe, OCR

Barcodes: Australian Post Custom, Australian Post Redirect, Australian Post Reply Paid, Australian Post Routing, CodaBar 2 widths, Code 11, Code 2 of 5 Data Logic, Code 2 of 5 IATA, Code 2 of 5 Industry, Code 2 of 5 Interleaved, Code 2 of 5 Matrix, Code 2 of 5 Standard, Code 39, Code 39 (ASCII), Code 93, Code 93 (ASCII), Code 128, Code 128A, Code 128B, Code 128C, DPD Code, DP Identcode, DP Leitcode, EAN13, EAN13P2, EAN13P5, EAN14, EAN8, EAN8P2, EAN8P5, EAN128, Flattermarken, GS1-128, GS1 DataBar, GS1 DataBar Expanded, GS1 Data Bar Expanded Stacked, GS1 DataBar Limited, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 Data Bar Truncated, ISBN, Italian Postal, Japanese Postal, KIX, Korean Postal, LOGMARS, MSI, NVE-18, Pharmacode One-track, Pharmacode Two-track, PLANET 12, PLANET 14, Plessey, Plessey Bidirectional, PZN, Royal Mail 4State, SSCC-18, Telepen, Telepen Alpha, UCC/ EAN 128, UPC 12, UPC 25, UPC A, UPC-A P2, UPC-A P5, UPC-E, UPC-E P2, UPC-E P5, USPS Intelligent Mail Barcode, USPS PostNet5, USPS PosNet6, USPS PostNet9, USPS Post-Net10, USPS PostNet11, USPS PostNet12.

2D Codes: Data Matrix, MicroPDF417, PDF417, PDF417

Truncated QR-Code

Graphics: .bmp, .pcx, .tif, .jpg, .gif, .pdf

## K600 VDP Controller

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- Modular RIP farm format with PC stack Windows® 7 controller
- Ethernet TCP/IP interface
- Data formats: Multipage pdf (other formats via third party interface)

## Environment

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### Aqueous ink

- Optimum temperature range: 20-26°C (68-79°F)
- Optimum humidity range: 40-60%

### UV curable ink

- Optimum temperature range: 20-30°C (68-86°F)
- Optimum humidity range: 40-60%