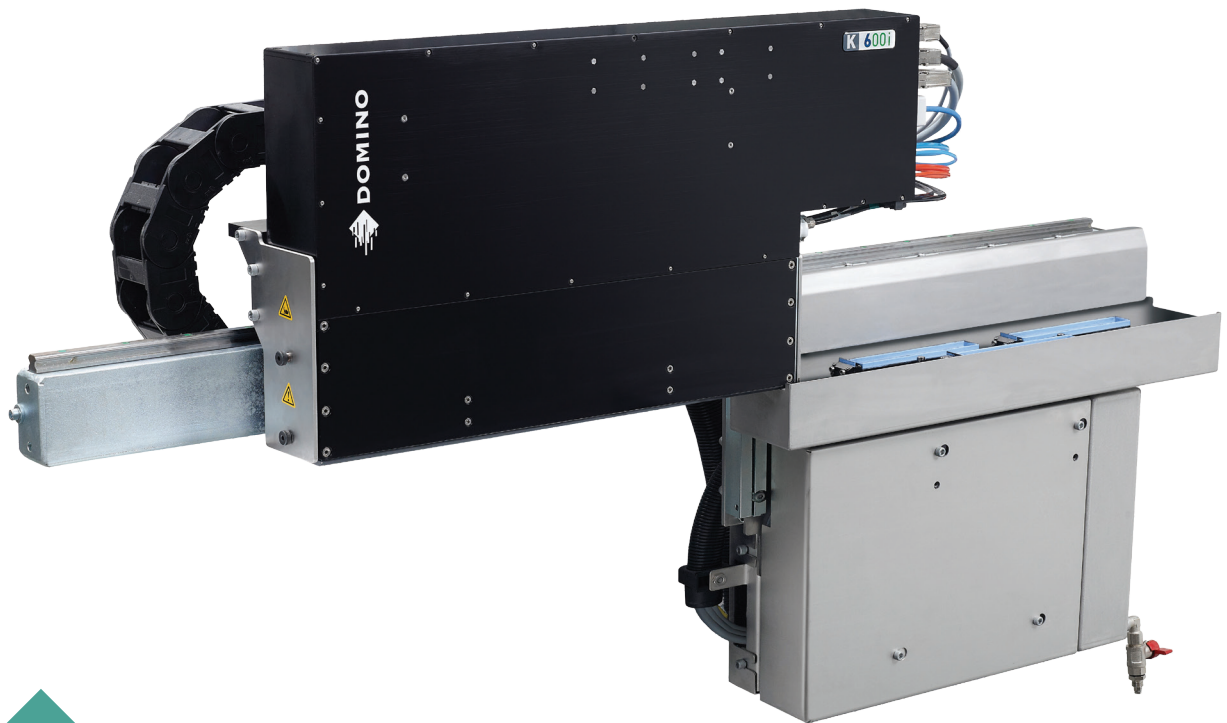# The K600i ink jet printer

It's just so versatile

Simple, productive and cost effective printer for digital printing onto a wide range of substrates

Domino. Do more.

K600i - it's just so versatile

Printing on to a wide range of substrates, the K600i combines productivity with 600dpi print quality.

The K600i, configured to the print width required, can be integrated into an existing web or sheet handling system for digital imprinting or can be in the format of a monochrome digital press.

The added-value offering to your customers will increase your sales and profitability.

A diverse range of applications

Designed for sheet or web – printing onto labels, tags, tickets, forms, security products and direct mail.

Personalisation of high quality pre-printed labels including variable 2D codes such QR codes.

For tickets and forms, printing 2D codes, barcodes and numbering sequences.

Digital foiling, a unique solution for brand protection and product embellishment.

Our widely recognised white printing solution provides a highly opaque white, that offers a cost effective alternative to screen printing.

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.

K600i

The K600i is supplied with UV curable, LED curable and aqueous 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. K600i UV curable inks contain 1% volatile solvents.

The Product Range

K600i Monochrome

High quality digital variable data printing at speeds up to 200m/min (650ft/min).

K600i White

The renowned cost-effective alternative to screen printing, ideal for a wide range of labels and packaging applications.

K600i Digital Cold Foiling

Innovative digital solution enabling conventional metallic foils to be digitally applied to labels, packaging and security products.

Each printer includes a compact print bar with mounting bracket and integrated Domino **i-Tech** *CleanCap* maintenance station.

Simple

Compared with other digital printing technologies, Piezo ink jet with UV curable, LED curable or aqueous ink is a non-contact form of printing with few moving parts. There are fewer requirements for manual intervention. The result is enhanced reliability.
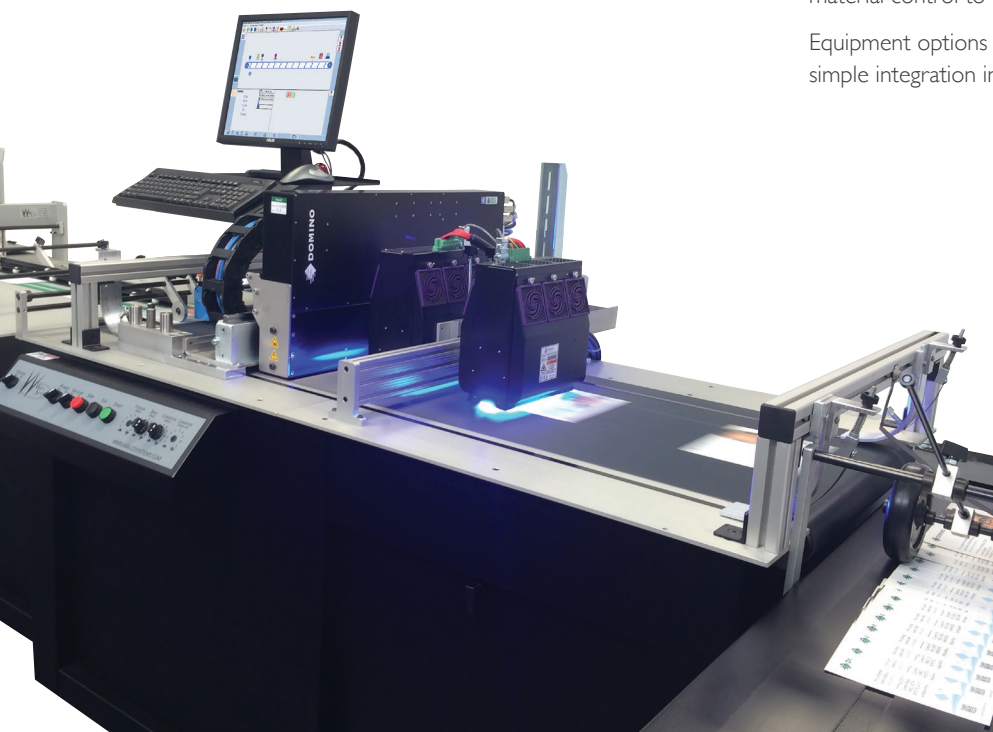
Modular

Print widths range from a single print module, covering 108mm (4.25") up to seven dual print modules with a print width of 782mm (30.81"). Print head alignment and image stitching is achieved through the Domino **i-Tech** *StitchLink* micro-motor controller technology. It is easy and accurate for rapid set up of high quality images.

Print Modules	Print width	
	(mm)	(inches)
× 1	108	4.25
× 2 or 4	220	8.69
× 3 or 6	333	13.11
× 4 or 8	445	17.54
× 5 or 10	558	21.96
× 6 or 12	670	26.39
× 7 or 14	782	30.81

Easy to Integrate

The compact design facilitates mounting on a press, finishing line, mail base or sheet-fed base... we just need some space and good material control to convert you to digital.

Equipment options include a roller section and web extension, enabling simple integration into your existing machine.

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Pay for what you use

The **K6**00i has few consumable parts. The ink and flush are charged based on the amount used.

Select one of four drop sizes (6, 7, 11, 14pl) for each job. Optimise print quality for a given media or reduce production costs by controlling ink usage. For the highest quality requirements, use with the Domino Editor™ RIP including greyscale capability, where multiple different drop sizes are used to create the images.

High reliability with minimal maintenance

We want to keep the print heads running. The unique Domino **i-Tech ActiFlow** ink circulating system ensures that the ink is always moving around the print head, even when it has stopped. This degasses the ink, preventing air bubbles forming that can impact nozzle performance. **ActiFlow** maintains consistent and reliable print results and reduces operator intervention.
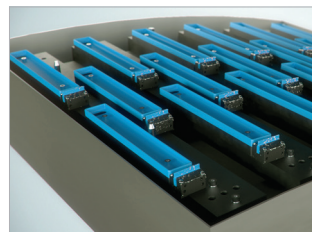
intelligent Technology

Domino's i-Tech components combine to create a system with superior performance, altogether more flexible and reliable.
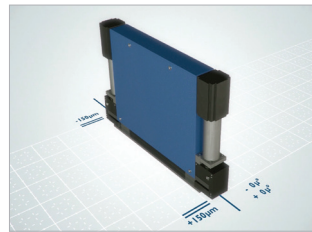
i-Tech *ActiFlow*

Ink re-circulation for superior jetting performance and reliability.

i-Tech *CleanCap*

Automated print head cleaning and capping station for the optimum print quality and productivity.

i-Tech *StitchLink*

Automated print head alignment for accurate registration and seamless print across full web print width.

Higher uptime and reduced costs of maintenance improves your profitability

The revolutionary **i-Tech CleanCap** automated print head cleaning and capping technology means the K6 00i almost maintains itself. **CleanCap** is a clean and consistent controlled process. This means there is no time consuming daily manual print head cleaning and the risk of print head nozzle blockage or print head damage is dramatically reduced.

When not in operation the print head is automatically moved into the **CleanCap** where the head is wiped and capped ready for the next use.

K600i Monochrome

Flexible modular solution that will meet all your high quality variable data and short-run printing requirements. Prints everything from text, sequential numbers, barcodes and the latest 2D codes. Integrates with existing print and finishing processes, operating up to 200m/min (650ft/min). The Domino Editor™ GT and Editor™ RIP provide simple but powerful data controller solutions.

Available with high impact UV-curable and LED-curable inks as well as cost effective aqueous pigmented inks.

With more than 300 installations **K6**00i Monochrome is a world leader.

Specialist inks

A range of inks are available including a fluorescent UV-readable ink for brand protection and security printing.
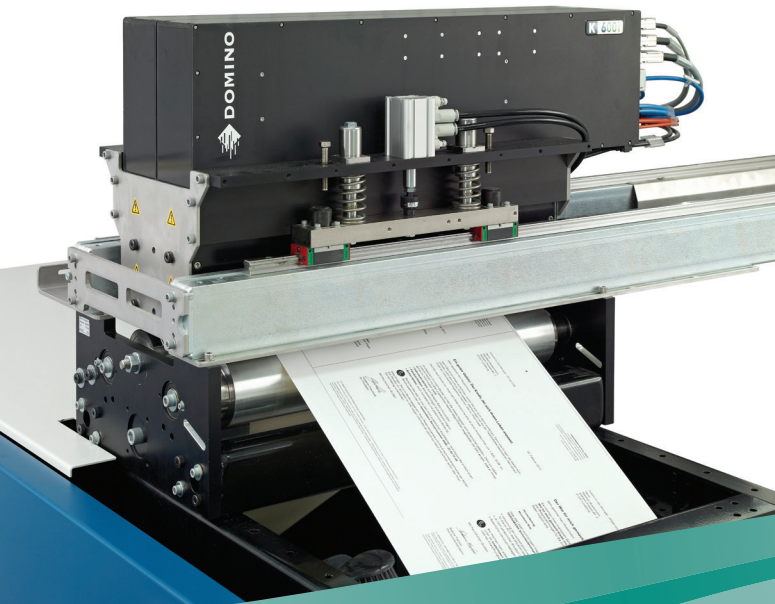
Printing speeds:

At 600 x 600 dpi - 75m/min (246ft/min)
At 600 x 300 dpi - 150m/min (492ft/min)

Dual Bar printing speeds:

At 600 x 600 dpi - 150m/min (492ft/min)
At 600 x 300 dpi - up to 200m/min (650ft/min)

Why use digital monochrome printing?

✓ **Unparalleled productivity** - operating at speeds of up to 200m/min (650 ft/min)

✓ **High print quality** - with a native resolution of 600dpi and potential for greyscale printing

✓ **Versatile** - compact, modular, configurable to the print width required from 108mm (4.25'') to 782mm (30.81'')

✓ **Reliable** - simple, non-contact printing with few moving parts minimises manual intervention and reduces downtime

✓ **Low cost investment** - compared to the purchase of a digital press, makes use of your existing production equipment to provide added value variable data printing

✓ **Low operating costs** - select one of four drop sizes (6, 7, 11, 14pl) to optimise print quality on different substrates, or control ink usage and reduce your cost per job

✓ **Reduced setup time** - **i-Tech** *StitchLink's* unique automated micro-motor controller technology enables precise head alignment with no stitchline

✓ **Reduced downtime** - the **i-Tech** *ActiFlow* continuous ink circulation system degasses the ink preventing air bubbles and blocked nozzles, resulting in less rejects and less maintenance

✓ **Low maintenance** - **i-Tech** *CleanCap* automated print head cleaning and capping station reduces the risk of print nozzle blockages and extends the life of your print head

Domino. Do more.

K600i White

The **K6**00i White provides a high opacity screen-like, high-impact appearance, but with the operational flexibility of a digital process.

As seen on the award-wining Domino **N6**10i since 2012, we have made our infamous digital white print capability available now as a separate **K6**00i White module, designed for integrating into your existing conventional printing process.
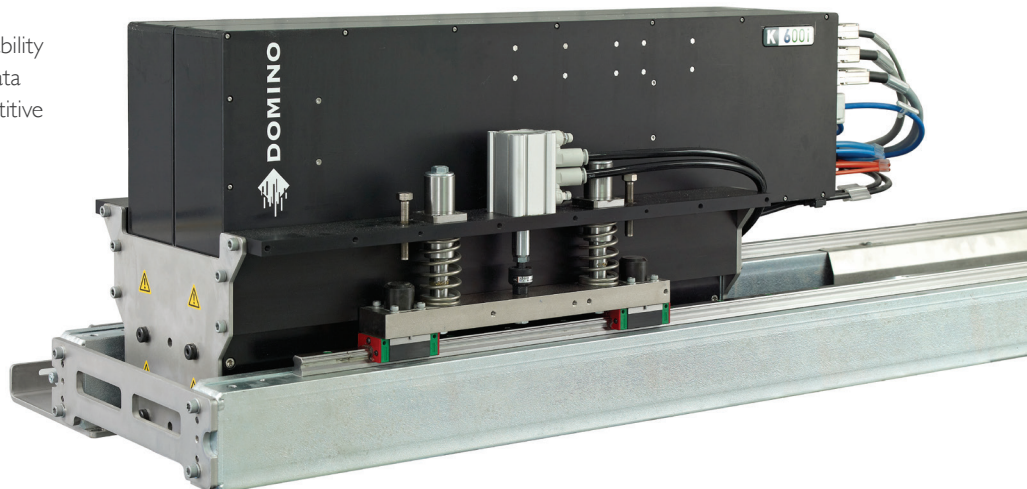
The **K6**00i White is configured with up to a 333mm (13.11") print width and prints up to 75m/min (246ft/min).

Screen-like printing replacement with a difference

There are no screens to be produced in order to get that opaque bold two dimensional textured effect typically only possible with screen printing technology. **K6**00i White is non-contact and clean to operate with almost no maintenance, efficiently providing this high impact printing in any quantities with no waste or time required to change from printing one job to another.

With shorter lead times, efficient short run capability and the capacity to print added value variable data printing, the **K6**00i White provides a real competitive advantage and added value capability.

Ink circulates in every part of the system to provide the ultimate reliability

Domino **i-Tech *UltraMix™*** ink tank continuously circulates the white ink ensuring the pigment does not settle, but stays in suspension at all times, providing consistent results and enhanced reliability.

The Domino heavily pigmented **i-Tech *TrapLess™*** print bar has a unique design removing all potential ink traps where pigment can conglomerate. This helps to avoid the risk of early life nozzle failure that will impact print quality and reliability.

Domino **i-Tech *Actiflow*** continuously recirculates the ink in the print head, reducing the risk of pigment producing blocked nozzles that will impact print quality and reliability.

Domino **K6**00i White **i-Tech *UltraMix™*** Ink Tank

Medium size enclosure

Why use digital white printing?

✓ Can integrate into your existing production lines

✓ High-quality, screen-like finish

✓ Total cost of ownership - no screens and rapid job set up

✓ Added value including variable data printing capability

✓ No high-cost of purchasing flexible screens

✓ Efficient short run production

✓ Operates at 75m/min (246ft/min)

✓ Responds quickly to customer requirements with reduced lead times

Domino. Do more.

K600i Digital Cold Foiling

This innovative digital solution from Domino enables conventional metallic foils to be digitally applied to labels, packaging and security products including features such as variable text, security marks and graphics.

Combines the benefits of variable content digital printing with metallic foils typically used in the analogue 'cold foiling' process. The combination provides an enhanced security feature representing a unique added value capability for your customers.

At speeds up to 75m/min (246ft/min), the Domino **K6**00i cold foiling system delivers real productivity. Combine this with virtually no make ready, no special tools, plates or dies, along with low maintenance and you have a highly efficient system to help you increase sales and profitability.

Domino brings the cold foiling process into the digital age!

Brand Protection and Authentication

Digital cold foiling is used to enhance brand protection, provide traceability and represents an enhanced anticounterfeiting measure. By combining the 'printing' of variable content onto customer specific customised holographic foils, it provides increased complexity and a heightened level of security that is difficult to replicate.
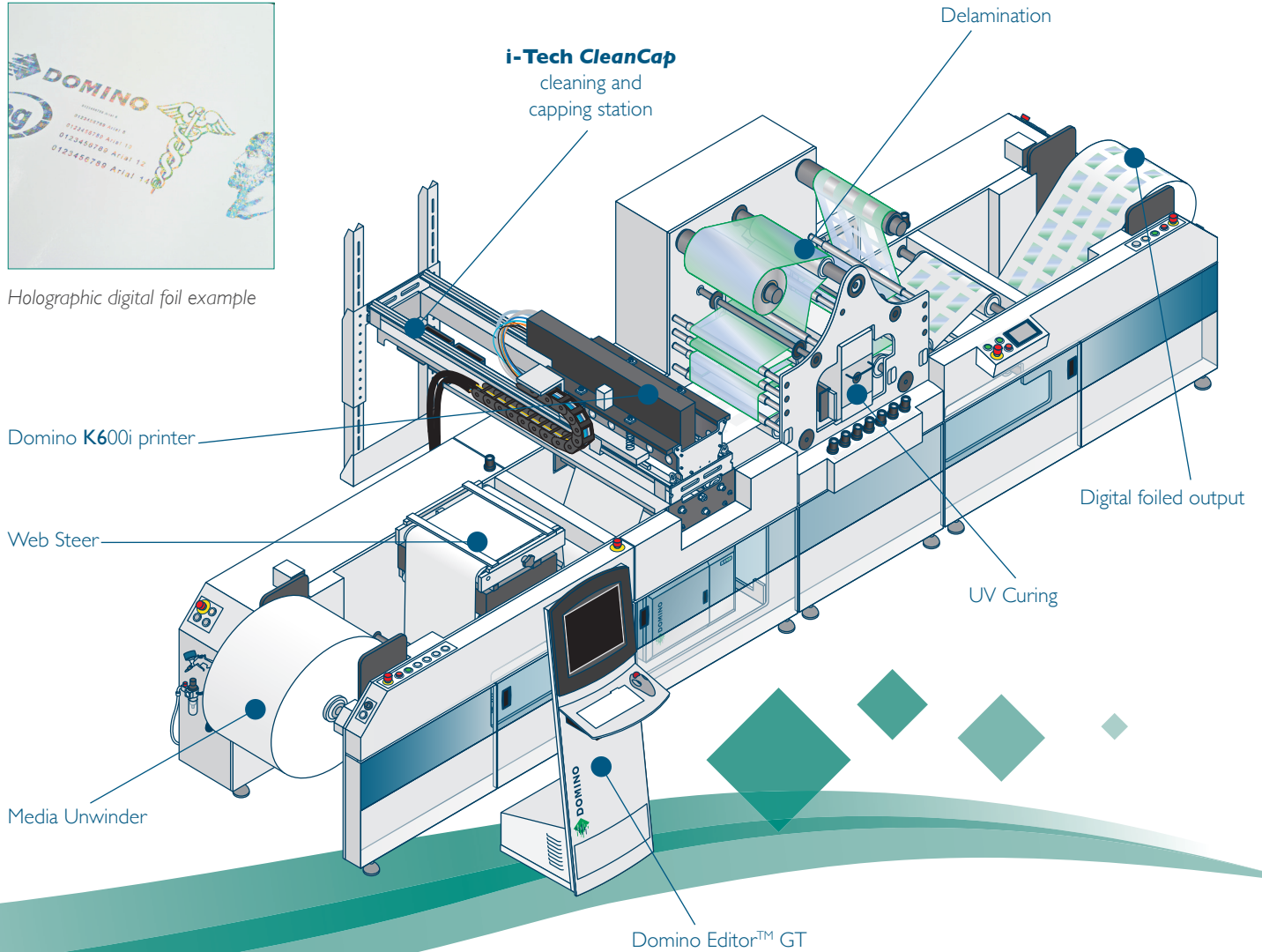
Packaging Embellishment

Especially for short run work, digital cold foiling is a highly efficient method to apply decorative foils to pharmaceutical, personal care, cosmetics, food and beverage labels and packaging.

Holographic digital foil example

Delamination

i-Tech *CleanCap*
cleaning and
capping station

Domino **K6**00i printer

Digital foiled output

Web Steer

UV Curing

Media Unwinder

Domino Editor™ GT

Why use digital foiling?

✓ **Versatile** - no requirement to produce flexo plates
   or expensive tooling

✓ **Lead time** - can print job as soon as image is loaded

✓ **Impact** - brighter and more reflective than printed foils

✓ **Quality** - produces large solid areas as well as images
   with fine detail

✓ **High Security** - combined with customised holograms
   provides unique security solutions

✓ **Durable** - highly resistant to handling and abrasion

✓ **Extensive range** - different shades, holographs and finishes

Also easy to integrate

K600i can also be integrated into an existing line, replacing a flexo
station making the flexo station available for another function.

Domino. Do more.

Workflow efficiency – It is not just about printing

Industry Standard Ink Jet & Line Controller

The Domino **Editor™ GT** PC based controller, with over 2,000 installations, is available for receiving and configuring data files for printing. A number of data formats can be received.

In addition data creation tools are available such as cut and stack and step and repeat numbering. To meet your application needs, a range of machine control options are available including Mail Sort and in-line camera verification. Network solutions are available for remote data preparation and set-up.
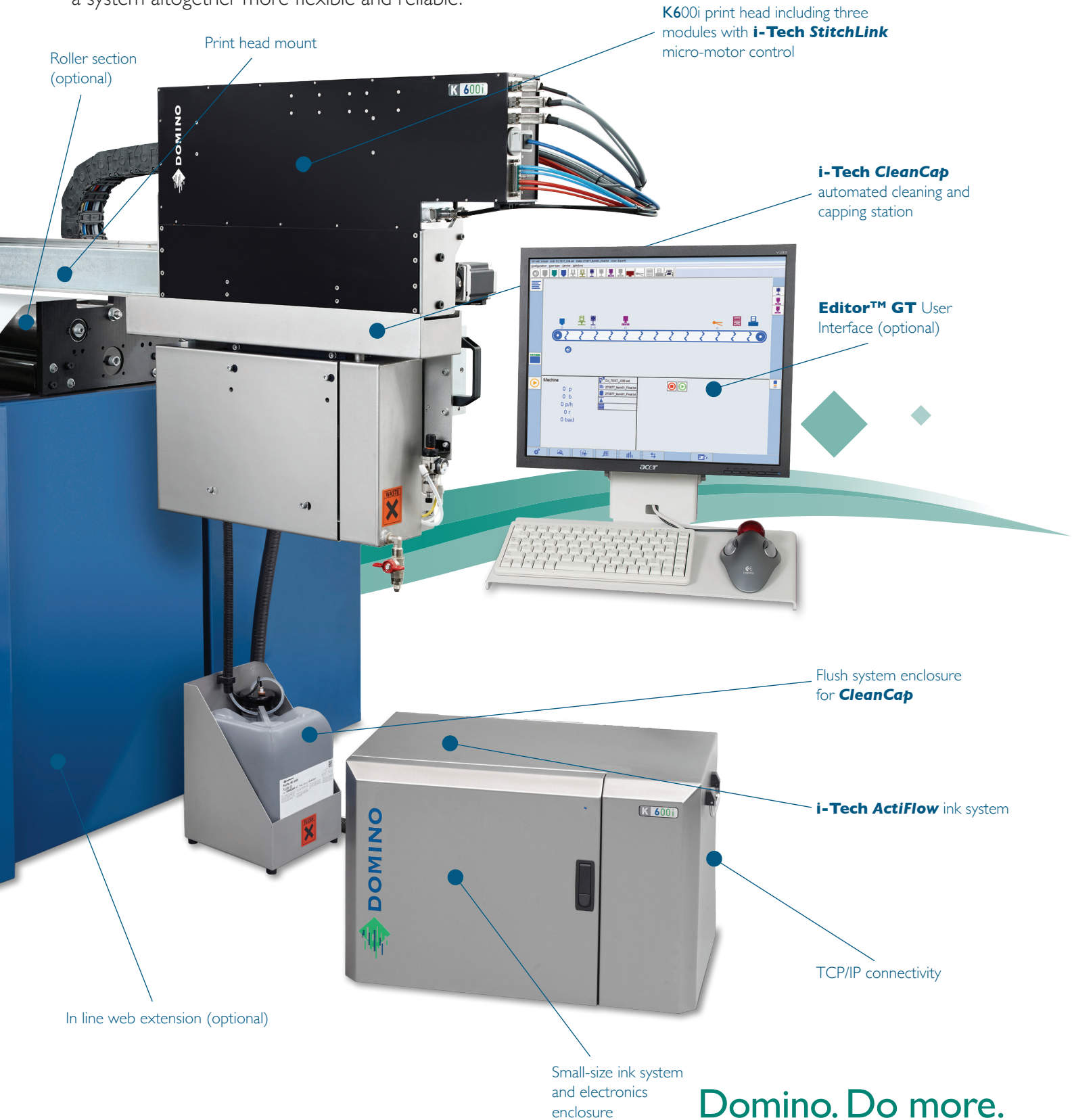
Data Hungry

For applications with significant variable data content requiring the highest quality output, or where a PDF workflow is preferred, we have the Domino **Editor™ RIP**. This modular solution ranging from simple desk top through to multiple rack mounted blades, can be configured to process your data requirements. Also supports full greyscale image processing for the highest quality printed output. Includes options for PDF files as well as IPDS and AFP data streams.

A quick tour around the K600i

intelligent Technology

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

Roller section
(optional)

Print head mount

K600i print head including three
modules with **i-Tech** *StitchLink*
micro-motor control

i-Tech *CleanCap*
automated cleaning and
capping station

Editor™ GT User
Interface (optional)

Flush system enclosure
for *CleanCap*

i-Tech *ActiFlow* ink system

TCP/IP connectivity

In line web extension (optional)

Small-size ink system
and electronics
enclosure

Domino. Do more.

![Domino logo]

Technical Specification:

Small enclosure - 10 litre ink supply box for up to 3 print nozzles or 333mm/13'' wide print systems

Operational Capability

Maximum line speed Standard	37.5 – 150 m/min (123 – 492 ft/min)
Maximum line speed Dual	150 – 200 m/min (492 - 650 ft/min)
Maximum line speed Digital Foil	75m/min (246ft/min)
Maximum line speed Digital White	4 drop sizes: 50m/min (164ft/min); 3 drop sizes: 75m/min (246ft/min)
Print resolution	300dpi - 600dpi - 1200dpi options
Nominal drop sizes	6, 7, 11, 14pl (14pl drop only at reduced speeds)
Image width range	108mm (4.25'') to 782mm (30.81'')
Nominal media to print head distance	1.0mm (0.04'')
Media	Coated and uncoated paper, foil and plastic

Ink System

Ink Supply	1 - 10 litres (ink dependent)
Ink Type	UV Curable / LED Curable / Aqueous / Foil Adhesive / White Heavily Pigmented

Print Capability

Editor GT:

Fonts:	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, Plessy 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 PostNet 11, USPS PostNet12.
2D Codes:	Data Matrix, MicroPDF417, PDF417, PDF417 Truncated, QR-Code, Quantrum-code
Graphics:	.bmp, .pcx, .tif, .jpg, .gif, .pdf

Editor™ RIP: IPDS, AFP data streams & PDF files

Mid-size ink supply box for all print systems above 3 print modules

Key Dimensions

Conduit length - main enclosure to print head 4m (13') for 1x1 module, 5m (16') for 1x2 or 1x3 module, otherwise 4.25m (14')
Conduit length - main enclosure to flush bottle 4m (13')

1x3 head print bar	1330w x 354.4d x 705.4h mm (height dimension excludes conduit)
Small-size 10L ink supply box	640w x 441d x 425h mm (dimensions exclude conduit radius*)
Mid-size 10L ink supply box	800w x 400d x 1810h mm (dimensions exclude conduit radius*)
Flush holder	234w x 234d x 360h mm (dimensions exclude air regulator and conduit radius*)
	*Width is configurable, please see below

Services

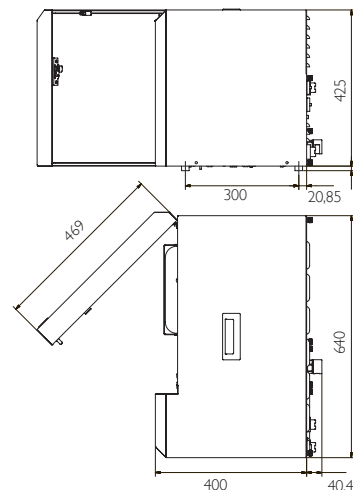|		
Electrical	K600i	110-240v AC50-60Hz 10A (auto ranging)
	UV System	Operation dependent, normally 380-420v three phase drop
Compressed Air		6-8 bar clean dry supply

Environment

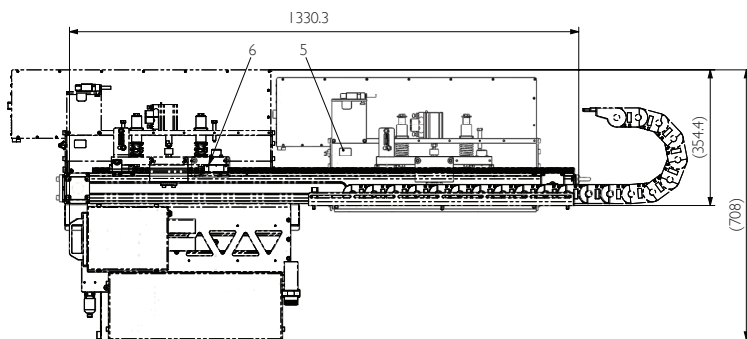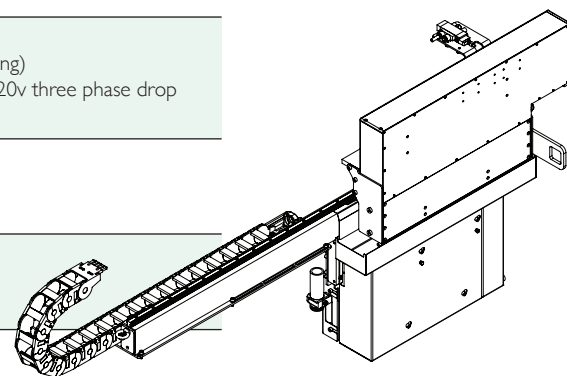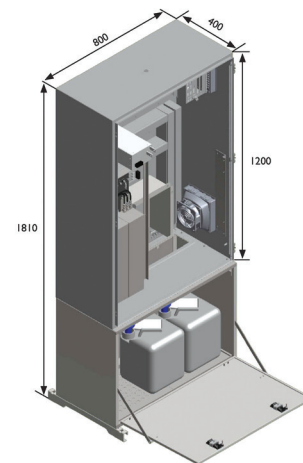|	
Optimum temperature range	20-30°C (68-86°F)
Optimum humidity range	40-60%

Ancillary Equipment

Print head guarding, UV dryer, LED UV pinning, Web cleaner, Web guide, Anti-static bars, Mail base, Web extension, Reel to reel system, Arched roller section, Corona treatment.

Print width to	Head Mount lengths
108mm (4.25'') Single	1339mm*, 1800mm, 2215mm
333mm (13'') Single	1339mm*, 1800mm, 2215mm
333mm (13'') Dual	1400mm*, 1800mm, 2215mm
558mm (22'')	1800mm*, 2215mm, 2600mm
782mm (30'')	2400mm*, 2800mm, 3400mm

*Standard length; bespoke length head mounts upon special request

You Tube™

http://bit.ly/2eLcpZM

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