K600i digital UV inkjet printer

Description of Technology

Domino K600i digital UV inkjet printer

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Domino K600i digital UV inkjet printer

- Integrates onto <u>FLEXO</u> label presses
- Variable data printing
- High-speed digital black plate
- Prints 600 dpi at 246 fpm
- Prints onto a wide range of uncoated or coated web or sheet materials such as labels, tags, tickets, and more.

Description of Technology
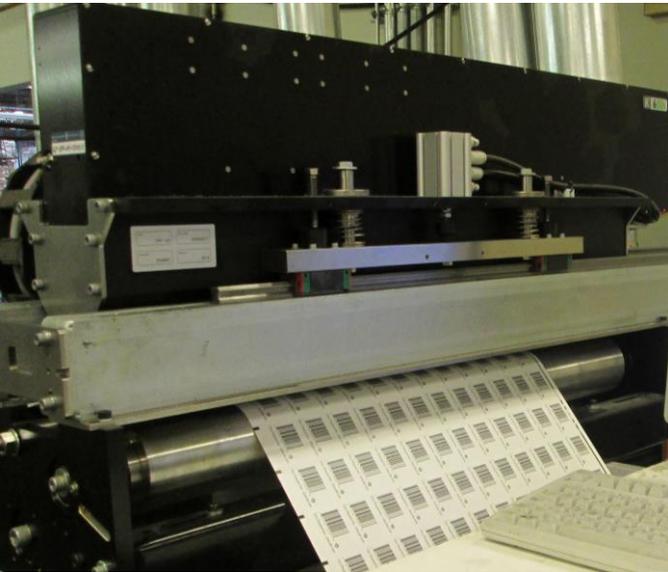
Domino K600i digital UV inkjet printer
Who Uses it and How is it used?

- Used by Label Printers who need to print variable data on their customers' labels, inline while on press. They also use K600i as a high-speed digital black plate.

- Examples of use: printing bar codes, QR codes, 2D codes, sequential numbering, serialization, track and trace.

Description of Technology

Domino K600i application example

Description of Technology

Domino K600i digital UV inkjet printer

So Who Uses it? Label Printers!

- Presidents, General Managers, Plant Managers, Production Coordinators, Printing Managers and everyone in-between are impressed by the Domino K600i.

- Why? Let's take a closer look…

Description of Technology

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So Who Uses it?

- The following slides are examples of Domino K600i customers.

- With your smartphone, scan the QR code in the lower right corner of each photo to watch a short testimonial video on the Domino K600i.

Tony Heinl
President
Repacorp

"With the Domino you turn it on, it prints, it works and you don't have to worry about it. So it makes us happy and it makes our customers happy."

"Since the installation of the Domino K600i, we can convert this raw product into finished goods at a quicker pace with less spoilage and quicker make ready times."

Gary Parrott
Plant Manager
Repacorp

Mike Gore
General Manager
Discount Labels

"The K600i runs 24 hours a day and it's been bulletproof. From an uptime standpoint, we haven't been down yet."

Tom Erickson
Plant Superintendent
The Label Printers

"I can't say enough about Domino. It was a very easy decision to go with the K600i. Domino has the best products in the market."

"Right now in the printing industry, if you don't invest in technology, you cease to exist. Domino isn't the cheapest solution, but you get what you pay for. Domino definitely made me a believer."

Philip Sparks
Production Coordinator
Flesh Co.

Sabrina Cherry
Director of Strategic Accounts
Flesh Co

"Our customers drive us to invest in technology. It's a huge, tremendous asset having the Domino and we are able to push product out the door quicker."

Niall Kelly
General Manager
Cool Pak

"We had looked at and invested in another technology. It was not going well. One of our competitors told us that if we wanted to make the right decision, just go with Domino and don't worry about the other guys."

"We print a billion labels a year. The K600i makes my life easier."

Richard Nevitt
Printing Manager
Cool Pak

Description of Technology

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User Benefits

- Enables Label Printers the ability to **utilize and leverage their existing flexo** assets, while integrating digital print capability.

- Provides Label Printers with a solution for their customers' label jobs that require **variable data** onto what is otherwise a flexo-printed label.

- Serves as a **revenue generator**. Label Printers can go after new business.

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Expected Outcomes

- With the growing demand for variable data printing based on SKU proliferation, track and trace, security applications, and projects requiring frequent graphic changes (i.e. ingredient labels), applications that call for the Domino K600i as a solution, will only increase.

Technical Achievement

Domino K600i digital UV inkjet printer
What did we achieve?

- Digital UV inkjet printing did not originate with the Domino K600i. In fact, until the K600i there had been a negative connotation with integrating digital UV inkjet onto a flexo press.

- Competitive systems had caused headaches for Label Printers… waste, mess, high in maintenance, low in productivity, inferior print quality, and lots of make-ready time because of too much manual intervention.

Technical Achievement

Domino K600i digital UV inkjet printer
"Engineering Out" Manual Intervention

- The objective was to create a printer which would minimize make-ready time by reducing operator involvement and manual intervention; and to provide the market with a truly innovative product that would perform better than anything like it.

- To achieve this, Domino K600i was designed and engineered with iTech automated features...

Domino K600i digital UV inkjet printer

"Engineering Out" Manual Intervention

- iTech StitchLink

- iTech CleanCap

- iTech ActiFlow

- User Selectable Droplet Sizes

Definitions of each iTech feature follow...

Technical Achievement

Domino K600i digital UV inkjet printer
"Engineering Out" Manual Intervention

iTech StitchLink – **Automated Stitching of Printheads**

<u>**Feature:**</u> StitchLink provides seamless printing across the entire print bar, which spans the entire web width (from 4.25" – 21.96" wide standard, up to 30" wide custom). Automated printhead alignment & image stitching is achieved through micro-motor controller technology. StitchLink offers easy and accurate set-up, and there is no manual stitching of the printheads.

<u>**Benefit:**</u> This translates into fast make-ready, less material waste, and excellent print quality. K600i prints seamless alphanumerics, logos, graphics, QR codes, 2D codes, and 100% scannable "Grade A" verifiable bar codes.

Technical Achievement

Domino K600i digital UV inkjet printer
"Engineering Out" Manual Intervention

iTech CleanCap – **Automated Printhead Cleaning**

Feature: CleanCap is an automated, servo-driven cleaning and capping station that is a controlled process. When not in operation, the print head is automatically moved into the CleanCap station where the head is wiped and capped ready for the next use.

Benefit: This eliminates the need for your operators to manually clean the printhead. Not only does this dramatically reduce the risk of print nozzle blockages, but since it is an automated process, less human intervention is needed. This eliminates the potential for damaging printheads. CleanCap provides efficiency and maximizes printer uptime.

Technical Achievement

Domino K600i digital UV inkjet printer
"Engineering Out" Manual Intervention

iTech ActiFlow – **Automated Ink Optimization System**

Feature: This pressurized recirculation system ensures UV ink is always moving around the printhead, even when the printhead is in the home position and not actively printing.

Benefit: ActiFlow helps to prevent air bubbles from forming which could impact nozzle performance, and it allows for filtering of the ink to catch debris, it controls the ink temperature therefore contributing to better ink flow, and it provides better print quality and prolonged printhead life.

Technical Achievement

Domino K600i digital UV inkjet printer

"Engineering Out" Manual Intervention

User Selectable Droplet Sizes –

Feature: 6, 7, 11 or 14 Pico liter drop sizes

Benefit: Allows the user to select and control the amount of ink to print. Print as small as 2pt. Font and it's crisp and clear under glass. The result is less ink consumption and *lower costs.*

Technical Achievement

Domino K600i digital UV inkjet printer

Why do we believe this was an achievement?

The Domino K600i provided a variable data printing solution that addressed **ALL** of the frustrating challenges that Label Printers previously faced who had integrated digital UV inkjet onto their Flexo presses.

Technical Achievement

Domino K600i digital UV inkjet printer

Why do we believe this was an achievement?

- Print resolution ranges from 300 – 1200 dpi

- Speed range 123 – 492 fpm

- Image width from 4.25" – 21.96" standard; up to 30" custom

- Kyocera printheads inside a SINGLE print bar design

K600i was engineered to **complement** FLEXO

Technical Impact on the Industry

Domino K600i digital UV inkjet printer

The technical impact on the industry over the next 5 to 10 years is that the Domino K600i will allow users of FLEXO technology to leverage their existing FLEXO assets, increase their capacity, and provide solutions to their customers who require variable data printing.

K600i users will produce more labels in less time, with minimal make-ready, provide customers a higher quality product with quicker turnaround, and will do so with maximum efficiency. Did I mention that users of K600i, love K600i?!

Technical Impact on the Industry

Domino K600i digital UV inkjet printer

In SlideShow Mode, click on these links to view videos that illustrate the challenges these Label Printers faced and how the Domino K600i has provided a key solution and highly positive impact on their business…

- [Outlook Group](#)
- [Flesh Co](#)
- [Repacorp](#)
- [Discount Labels](#)
- [The Label Printers](#)
- [Cool Pak](#)