![DOMINO]

The N730i digital label press

Discover what you can do

Helping your business grow through digital

Domino. Do more.

Everyone wants something different

Rapid change is the perpetual state of the label market. Brand owners' preference for dynamic product lines is a natural response to customer expectations and competitive pressures, but it has consequences for printers.

Multiple SKUs, regional variation, customisation and individual traceability combine to shift demand away from long run jobs, and upset the traditional economics of label printing.

Demands from customers are more diverse and also, more urgent.

Just in time delivery and small batch ordering add further financial emphasis to the practical need for ever greater adaptability in the print room. While challenging, this environment breeds opportunity for the enterprising.

It's an attractive market, if you're able to deliver

Fulfilling short runs within tight timeframes economically has driven the shift to digital ink jet label printing. But this is not the whole picture, reliable output matters too. Vibrant, durable colours, high resolution images, and fine details remain important considerations for customers with diverse market needs.

Meeting the demands of markets as diverse as cosmetics and chemicals, pharmaceuticals and industrial, relies on being able to digitally produce to the same highest quality standards that prevail in analogue printing.

To take advantage of growing opportunities in the label market, new ideas are needed

Meeting increasing demands for variety, speed, quality, and cost savings are beyond the limit of conventional technologies.

The **N7**30i from Domino is both bold and game changing. It offers a new and revolutionary technological solution that achieves consistent, high quality output at speed; it gives you more access to more markets for improved profitability, and more confidence knowing you've got expert support from a trusted global partner.

Technology that enables your business to claim more of the market and make more profit

In theory, digital print always wins on shorter runs, but that is only true where it can deliver the output quality the customer requires.

New technologies in the **N7**30i deliver a reliable system that provides consistent, exceptionally high quality, higher resolution and with an ink designed to support multiple sectors.
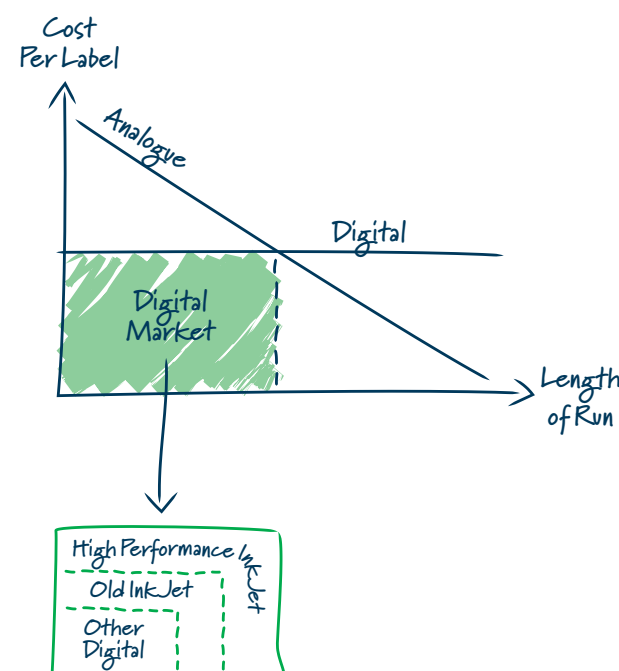
"With Domino's digital press, the labels are already printed by the time we would have finished plating up on the typography press."

Christophe Quirantes, Commercial Director, QRT Graphique, France

Domino. Do more.

Introducing the **N7**30i

In designing the new **N7**30i, we began by asking our customers what would make their business better. There are approaching 1,000 customers using the Domino Generation 6 ink jet technology, so we got a lot of answers. Combining that insight with our technical expertise and in-house manufacturing capability, we were able to design and build a completely new label press solution from the ground up. It is a team effort and we are proud to introduce our **N7**30i based on the latest Generation 7 platform.

We listened to our customers

"Consistent Quality" Our customers told us that quality is critical but not just quality alone. They confirmed that they needed exceptional and consistent quality at high production speeds.

"Ease of Use" They told us that ease of use is just as important as speed and throughput.

"Maximum Flexibility" They wanted maximum flexibility with financing options, tailored services and the ability to evolve the solution to help their business be as competitive as possible both now, and as their needs change, in the future.

Designed to deliver high quality performance

Consistent Quality: We addressed the need for exceptional print quality through our revolutionary BITSTAR™ print head and enhanced some of our **i-Tech** features to ensure consistent quality at high production speeds.

Ease of Use: We designed an intuitive user interface which is easy for the operator to interact and engage with. Offering a fresh and modern feel, we believe that the SunLight interface makes the **N7**30i one of the most intuitive interfaces on the market today.

Maximum Flexibility: We considered maximum flexibility by providing customers with a wide range of alternative finance and support service offerings; plus optional flexo stations for priming, spot colours or varnishing which can be retrofitted as their business needs change. With our support this allows our customers to access new business from new market sectors whilst gaining greater competitive advantage and flexibility in serving their customers' needs.

How we make it easy for you

Having a single button to print is an aspiration for digital label press manufacturers, but there is a lot more to ease of use than the way you start the web rolling. We wanted to simplify your work, by automating the **N7**30i as much as possible, going beyond job set up to include monitoring what happens while the job is in progress. We created a system with the ability to sense, communicate, and learn from experience.

That really is starting something.

PRESS TO START

Domino. Do more.

Discover the power and the potential

Accessing new markets and delivering for demanding customers puts everyone under pressure to perform.

The consistent high quality of output, high speed operation and printing efficiency of the N730i establishes it as an asset that will help your business compete and win.

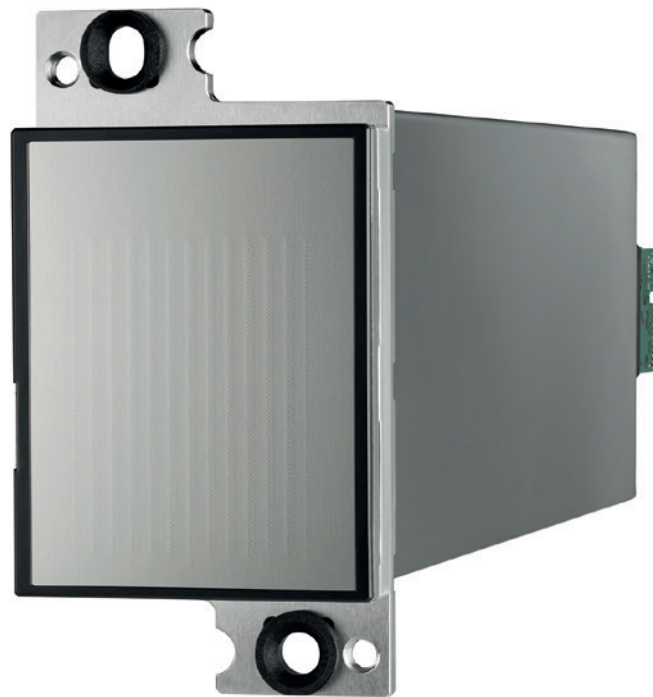## High performance technology – 1200dpi with consistent quality at speed

At the centre of the N730i is the BITSTAR™ 1200dpi print head. Designed to deliver exceptional print quality at an optimal high speed of 70m/min, including white.

A completely unique design, the BITSTAR™ is primed with technical features that stretch the possibilities of digital print quality.

Unique and patented triple layer polycrystalline micro piezo technology minimises cross talk and delivers precise nozzle control for optimum drop placement accuracy and superior print results.

That consistency is maintained throughout the lifetime of the head, greatly extending its useful life and long term value. The BITSTAR™ print head delivers unparalleled quality at speed and exceptional reliability.

BITSTAR™

Fine Fonts, micro-text, Asian characters and intricate fine lined artwork can be achieved.

Bold colours are richer, more consistent and easier to match accurately.

Fine details, such as geometric shapes and subtle shading are achieved with reduced mottle.

Smooth gradients, including grayscale highlight detailed shadows over a smooth gradient.

Revolution in resolution – Combination of smallest drop sizes for the finest detail

The central challenge of ink jet printing is to ensure reliable, high quality images on a wide range of substrates. In the search for the highest possible quality of image, Domino developed the combination of smallest drop sizes.

The N730i is capable of printing a smallest drop size of 2.1pl and nominal drop sizes of 2.8pl and 3.3pl. The result is consistent ink density across the image. That means sharper edges, smoother gradients, exceptional quality and greater accuracy at any scale.

Take a look at what we can do...

Skintones are printed at exceptional quality with smoothness across tone changes.

Domino. Do more.

Discover the **N7**30i

Superior Print Quality: 1200dpi with revolutionary BITSTAR™ print head.

Unparalleled Production Efficiency: Superior uptime because of the most advanced **i-Tech** features.

Ease of use: Including the new Domino SunLight Graphical User Interface (GUI). At the press of a button, the N730i can be automatically set up and ready to print in less than a minute.

Robust industrial performance in mind: Solid, industrial frame with easy access points to eliminate registration errors.
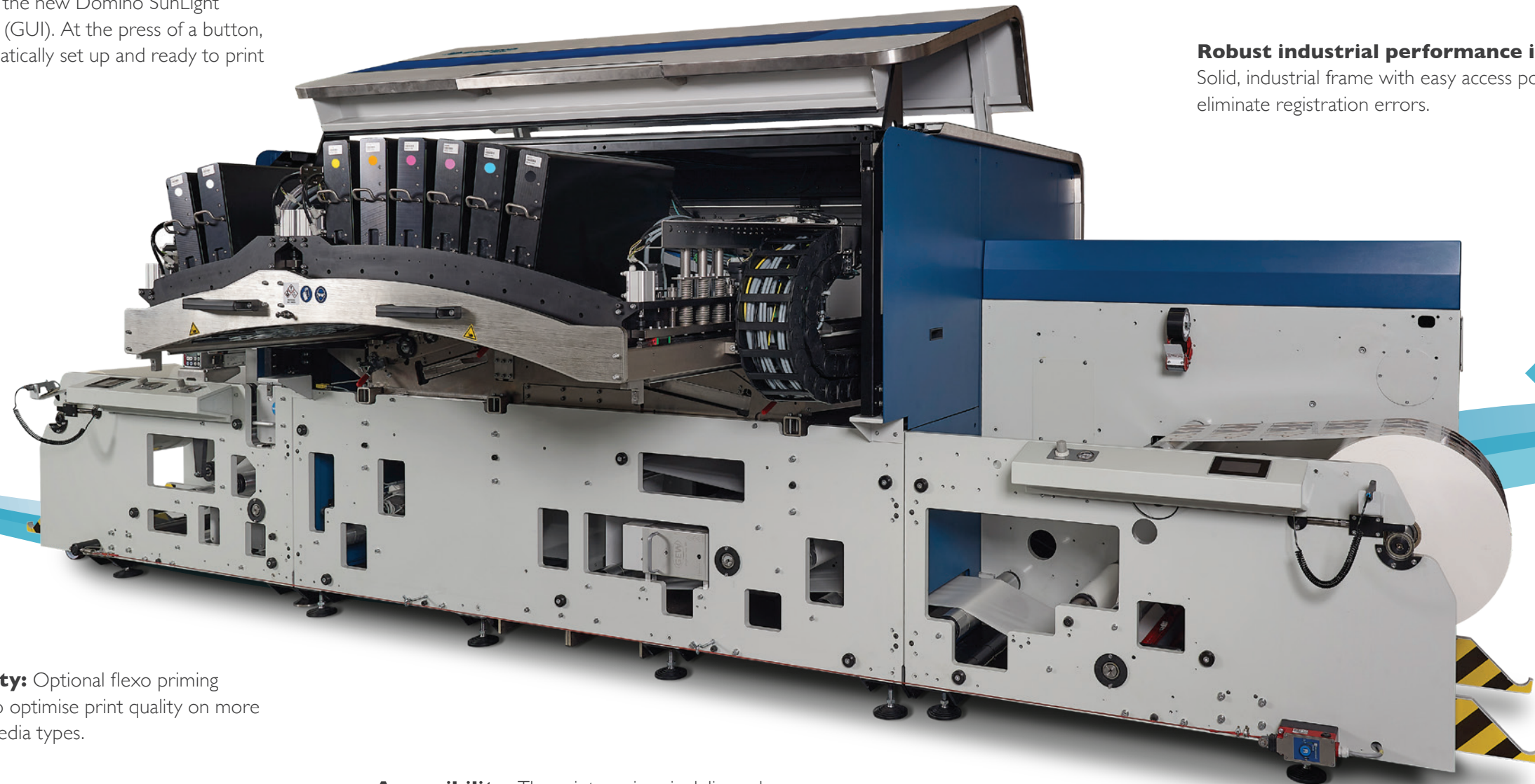
Flexibility: Optional flexo priming station* to optimise print quality on more difficult media types.

Accessibility: The print carriage is delivered through an innovative slide system, allowing the user to pull the print carriage outside and towards the front of the machine. Automated roll lifts are provided as standard at the unwind and rewind.

Stand out from the crowd: Optional flexo station* to support varnishing, a brand spot colour or for cost-effective flood white for shrink sleeve applications.

*flexo stations not detailed in this image

Domino. Do more.

UV90 ink range widens your market

The exceptional resolution and consistency of the BITSTAR™ print head is matched by the performance of our UV ink range. The N730i with our UV90 ink set opens up more markets, with a wide colour gamut, including solid white at 76% opacity, high resistance to UV, and strong adhesion and abrasion properties. UV90 can also support shrink sleeve applications.

Seven colour print

The N730i can be configured to print up to seven colours, including orange, violet and white. The full CMYKOVW combination makes it possible to achieve 92% of the Pantone®* colour matching system range, without the need to mix spot colours.

Applications

The UV90 curable ink set is ideal for:
Industrial, household, personal care, security, health and safety, automotive, chemical, pharmaceutical, food and beverage** sectors

Low volatility, high performance

UV curable inks have a less distinct environmental footprint than alternative solvent inks, having an average across the ink range of 3.3% volatile solvents, and requiring less frequent print head cleaning and maintenance materials. Tested using industry standard cross hatch and tape tests, Domino UV90 inks maintain full adhesion on the widest range of substrates and remain highly abrasion resistant. Their performance means you may not need to pre-coat or varnish most substrates.

✔ Vital for industrial applications, good adhesion and abrasion resistance are important for all applications.

✔ UV90 inks maintain full adhesion on heat-sensitive shrink labelling, even when reduced by 70%.***

Colour that stays

✔ Using the Blue Wool Scale, the relative lightfastness of different pigments can be measured. The maximum rating is 8.

✔ On many substrate types, UV90 achieves the maximum score.

UV90MG   UV90OR   UV90VL   UV90YL   UV90CY   UV90WT   UV90BK
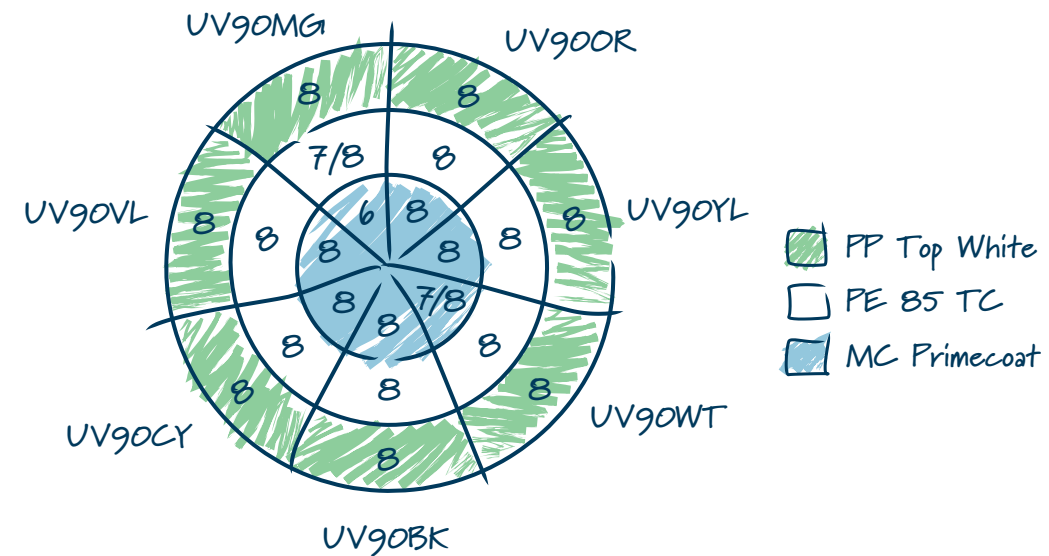
PP Top White
PE 85 TC
MC Primecoat

What's in a drop?

High resolution might seem like everything there is to say about image quality, but there are many more variables that can affect the finished print.

Domino formulates its own ink sets to provide the range of colours, durability and permanence required by the most exacting applications. Engineering the print head and ink formulations to deliver colour vibrancy and ink drops as small as 2.1 picolitres is akin to magic, the ink appearing as if from nowhere.

R&D
Ink Chemistry
Delivery Mechanism
Electrical Control
Clean Operation
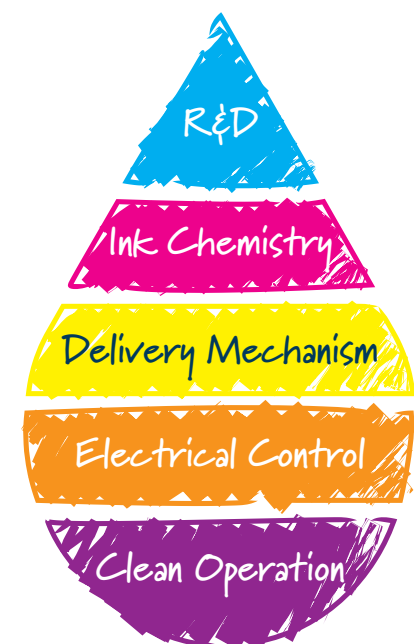
*Subject to delta E and media specification
**Subject to regulations in the given market and when a migration barrier is in place
***Media dependent

Silk white without the silk screen

Domino digital white prints at 76% opacity to create the highest impact artwork.***

Bringing print to life

Unique Domino textured label effects can be created on standard paper, PP and PE materials. Achieve premium product branding with enhanced shelf appeal.

Textures
by Domino

Domino. Do more.

Ink jet intelligence

Our unique **i-Tech** features make the Domino difference

Domino's *intelligent Technology*, or **i-Tech** features are given the name because we consider them to be outstandingly clever elements whose inclusion measurably improves efficiency, use, function and reliability.

Our teams have now further improved many of the existing **i-Tech** enhancements, examples include **i-Tech** *CleanCap2* but also **SetAlign**. The best has just got better.

Jets that keep jetting with **i-Tech** *ActiFlow*

This ink circulation system keeps the ink continuously moving around the print head, maintaining a consistent temperature and removing micro air bubbles, ensuring consistent print quality and reliability.
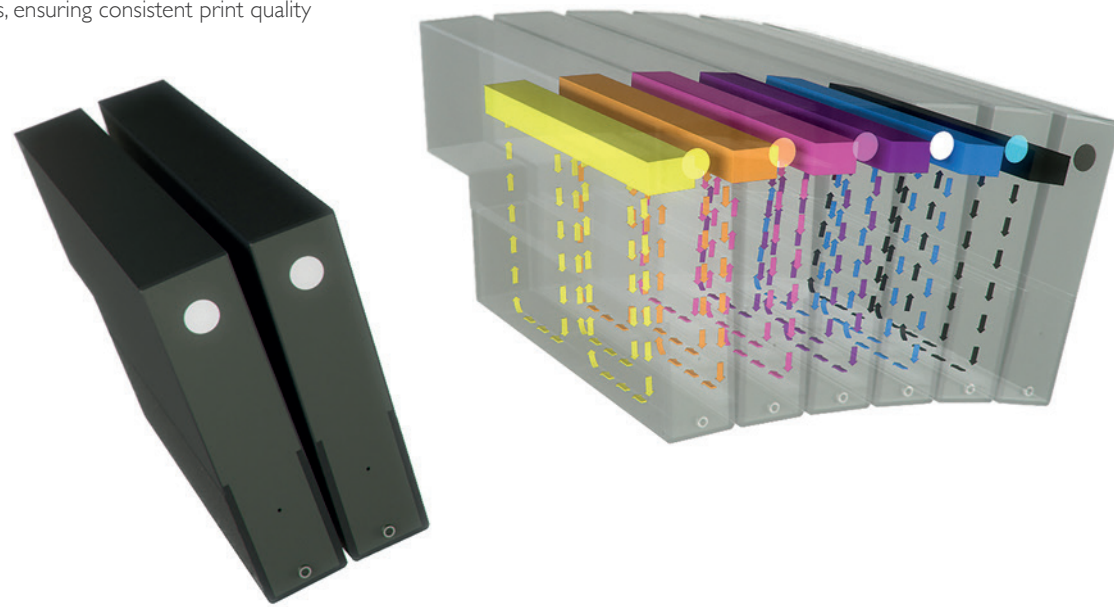
Automated cleaning with **i-Tech** *CleanCap2*

Are you still manually wiping your print head? This automated print head cleaning and capping technology is a consistently controlled process which reduces manual operator intervention and reduces waste.

Save time and increase print quality with **i-Tech** *SetAlign*

The innovative **i-Tech** *SetAlign* is an automated system that sets density and accurately aligns the print heads. This combination of consistent density, created by the voltage trimming across the entire print bar, with the precise head alignment results in a uniform and seamless print across the full web width. Exceptional quality is delivered, every time.

Brilliant opaque white that just keeps flowing with **i-Tech** *UltraMix™*

Heavily pigmented inks as used for high opacity white ink printing can be a challenge for any printing method. The key is to not let the pigment settle. The **i-Tech** *UltraMix™* ink management system moves the ink continuously in all parts of the system with no catchment points. The result is printing great opaque white ink while achieving the ultimate in reliability.

Take back control with **i-Tech** *WebRev*

Substrate type changes and unplanned stoppages are simplified with this ingenious web reversal function. In-line finishing, web waste for a substrate change can be limited to less than 2m (6ft) and manual intervention is dramatically reduced.

Domino. Do more.

It's easier to choose things that simplify life

Domino's new **N7**30i is designed to make your life easier. While you're away concentrating on the next big order, it will be quietly delivering. It's easy to live with from its streamlined design in the print room, to the simplicity and ease of operation.

Work flows more easily

The workflow is modular in design, you can operate the press independently or completely automate the process both for set-up and for reporting purposes. Not only is the choice yours but in future you can change your mind as your business grows and you want to automate more.

Esko

The system is supplied with the ESKO DFE v3.0 that colour manages and RIPs PDF files ready for the **N7**30i to print. ESKO is an industry standard for pre-press, this makes you so well placed for integrating with yours and your customers' label design stage.
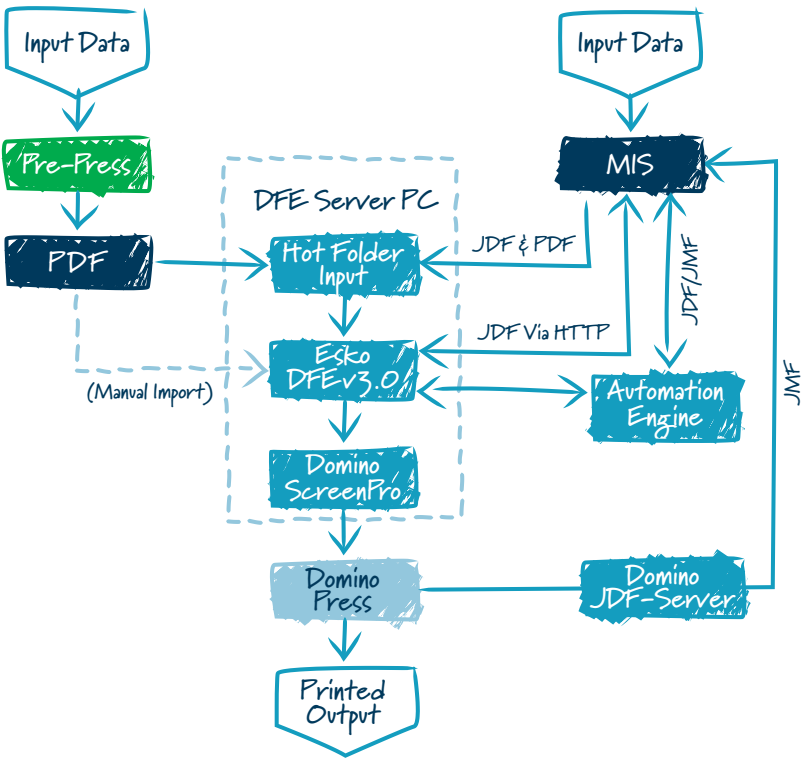
ESKO✪

JDF/JMF Support

Moving on we have adopted the JDF/JMF industry standard. With Job Definition File (JDF) support we can receive job settings and production information for our press based on your management information system (MIS) files you hold. This might mean automatically setting up curing power for a given job and media type. If you reprint a job, after feeding in the correct substrate, the first touch point is to select it to print at the press, everything else can be automated.

Job Management File (JMF) support means that after printing, all the data is captured in a format that easily integrates with other data you may have for continuous improvement and monitoring performance. Job settings data may be used for future JDF settings for given jobs. You can also see how much time it takes to print, ink usage and general product efficiency trends.

Here we can both integrate with your MIS or you can use our standalone reporting tools.

Input Data → Pre-Press → PDF → Hot Folder Input → Esko DFE v3.0 → Domino ScreenPro → Domino Press → Printed Output

(Manual Import)

DFE Server PC

Input Data → MIS

JDF & PDF

JDF Via HTTP

Esko DFE v3.0 → Automation Engine

JDF/JMF

JMF

Domino JDF-Server

Say hello to SunLight

Simply the industry's easiest UI, the SunLight platform's graphical and flexible interface is completely intuitive as well as highly configurable.

Domino. Do more.

You're getting the whole
Domino Digital Printing Solutions team

We put support exactly where it's needed... on the ground

The Domino field service teams are always ready to help you maintain the performance of your business.

With the insight that comes from working on a product we design and build ourselves, and the experience of helping a broad customer population, our field service is highly rated worldwide.

It increases the depth of support we can offer as well as the speed of response, but most of all it increases the strength of the relationship.

Discover the difference

Approaching 1,000 partnerships

The **N7**30i, using our Generation 7 technology, is the product of more than 40 years of ink jet innovation, the insight and expertise of more than 2,800 people, and the experience of almost 1,000 customers of Generation 6 ink jet technology.

Everything is designed and built within the Domino Group: hardware design and manufacturing, software UI, ink chemistry and formulation. Installation, maintenance and support are equally vital components of the press. With 25 subsidiaries and over 200 distributors, Domino supports you in 120 countries.

"Our mission is to save our customers time by finding solutions that are efficient, innovative, and sustainable. Domino helps us with that, they've been helping us for 12 years and will continue to do so in the future."

Kevin Hayes, President, Outlook Group, USA

You're in safe hands

We've designed our support packages around our customers' needs. **SafeGuard** provides our customers with a an extended warranty and preventative maintenance package at a fixed monthly price. It is built around providing our customers with choice and flexibility as their business grows. If your business requires breakdown cover and spare part provision, you're in safe hands. Need additional training packages for your teams? We have it covered.

Whatever your support needs, you can be rest assured that you're in safe hands with Domino and our **SafeGuard** programme.

SafeGuard

It's never been easier to invest in digital

Ask about our flexible leasing solutions, our competitive rates are generally lower than banks or third party leasing companies. Plus, you're dealing directly with Domino and no personal guarantees are required.

And it's all backed up with our excellent global customer service as well as a choice of service levels, spares, consumables, maintenance and training plans, all tailored to your unique business needs.

Financing

Leasing

After-Sales Support

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Digital Solutions Programme

Maximising opportunity and helping you do more

The Domino Digital Solutions Programme provides you with market leading training and consultancy services, helping you to identify how to unlock new growth potential whilst maximising the efficiency and output of your **N7**30i digital press.

With Domino you can be assured that we are with you 'every step of the way' and our Digital Solutions Programme is designed to provide you with tailor-made services that deliver significant value to your business.

"The Domino Digital Solutions Programme training enabled us to meet the increasing demands from our customers for printing labels and sleeves with variable data. I am very satisfied with the improved performance achieved."

David Brugalla, CEO, Conver Autoadhesivos, Spain

Discover → Operate → Maximise → Integrate → Nurture → Optimise
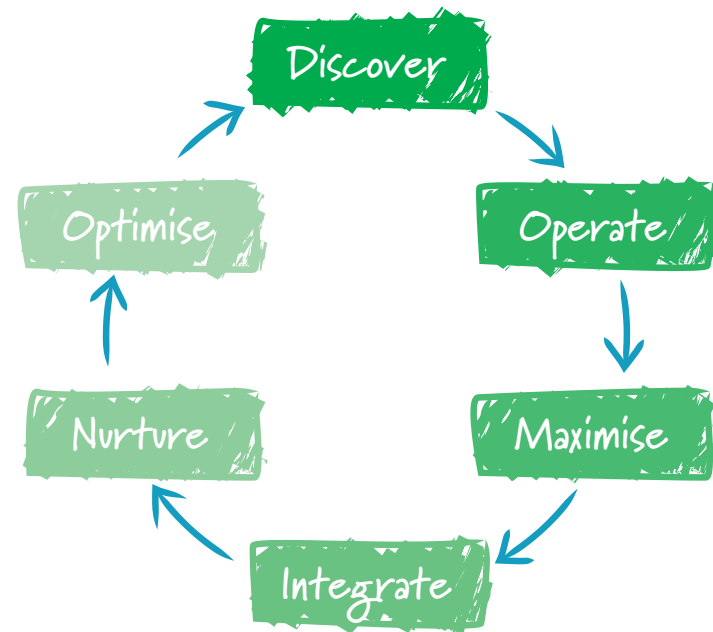
About Domino

Domino was founded in 1978 in Cambridge, UK to develop ink jet printing technologies. Our roots were firmly in the science of ink jet printing and our people have made many contributions to the physics and chemistry of the industry, registering patents for much of their work. As a highly successful commercial business, Domino has an enviable record of achievement, of international sales, and a reputation for quality and customer care.

Through a global network of 25 subsidiary offices and in excess of 200 distributors, the Domino Group operates in over 120 countries employing over 2,800 people worldwide with manufacturing facilities situated in UK, China, Germany, India, Switzerland, Sweden and USA.

On 11 June 2015, the Domino Group was acquired by Brother. Brother is a registered trademark of Brother Industries Ltd.

Registered Office Details:

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Trafalgar Way
Bar Hill
Cambridge
CB23 8TU
United Kingdom
Telephone: +44 (0)1954 782 551
www.domino-printing.com

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 ink jet printers are RoHS and WEEE compliant so that they are recyclable.

N730i

The **N7**30i requires no plates, no plate making process or associated materials for washdown purposes and with fewer curing lamps than a flexo press, it uses less energy resulting in reduced costs. It creates very little media waste – this can be less than 2m (6ft) per job / substrate change* and the capability to 'print-on-demand' results in less over-printing and reduced storage requirements.

The **N7**30i is supplied with UV curable 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. **N7**30i UV curable inks contain an average of 3.3% volatile solvents.

*based on theoretical calculations

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Technical Specification:

Technology
- Piezo Drop on Demand ink jet

Printing Speed
- Up to 70m/min (230ft/min) with optimum print quality

Image Resolution
- 1200dpi native including 3 drop sizes

Image Formats
- 340mm (13.4'') maximum print width

Web Width
- 170mm (6.7'')* to 340mm (13.4'')

Media Type
- Polyethylene, polypropylene and paper self-adhesive label stock
- Selected unsupported media

Inks
- **UV90** is available in UV curable Cyan, Magenta, Yellow, Black, Orange, Violet and White.

Unwind/Media Preparation/Rewind
- 1000mm (39'') diameter
- Maximum roll weight: 350kg (772lbs)
- Servo driven tension control
- Corona treatment module
- Dual sided web cleaner
- Web guide module

Workflow
- ESKO DFE v3.0
- Domino ScreenPro, ScreenPro HS, ScreenPro UHS
- JDF/JMF Support

Central Print Module
- Anti-static control
- Up to 7 colour print section
- UV LED pinning
- UV curing module
- Chilled roller

Options
- In-line finishing interface
- In-line inspection
- Variable data printing
- Flexo stations - priming/varnishing

Dimensions
- 6.208m (L) x 2.066m (H) (2.218m minimum clearance required) x 4.127m (W)
- 20.3ft (L) x 6.7ft (H) (7.25ft minimum clearance required) x 13.7ft (W)

Weight
- Unwind: 788kg (1737lbs)
- Print module: 2300kg (5070lbs)
- Rewind Unit: 679kg (1497lbs)
- Electronics Cabinet(s): 750kg (1654lbs)
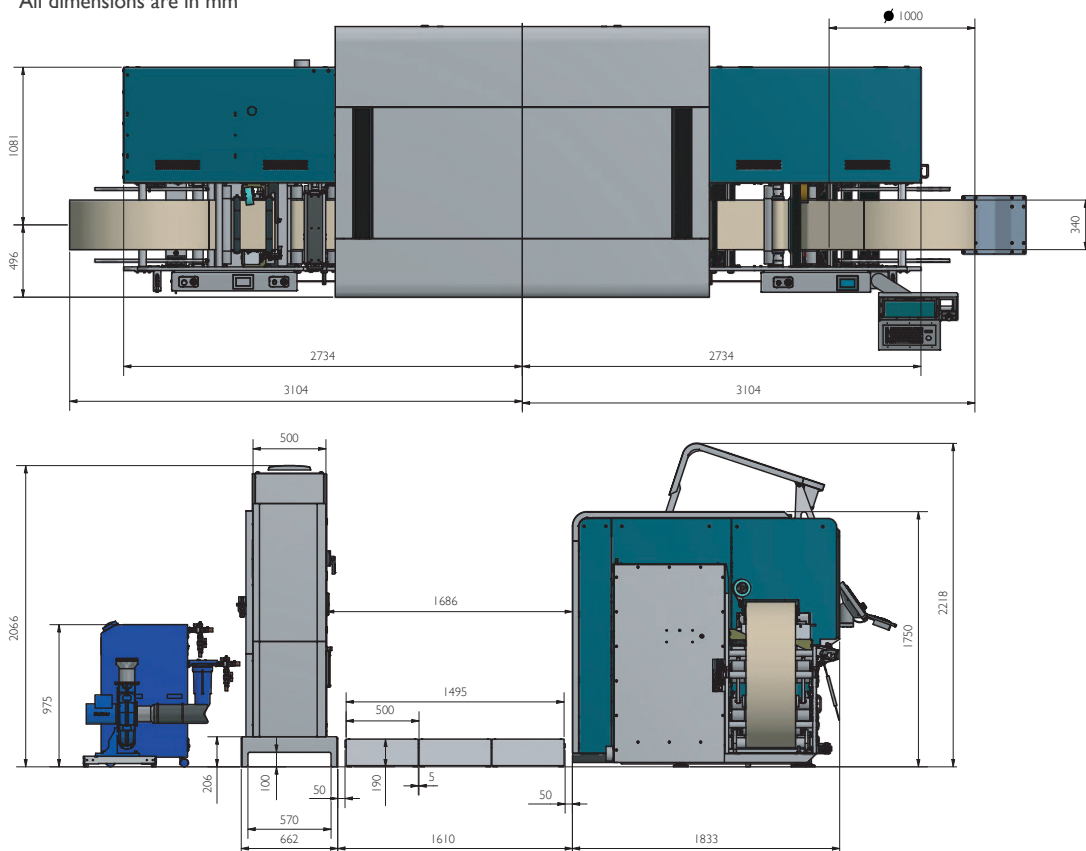- Ink Cabinet(s): 100kg (221lbs) each
- Flush Cabinet: 75kg (165lbs) each

Services
- Three phase power - one 380-420V drop Compressed air - one drop @ 6-8 ba (90-115psi), clean and dry

Environment
- Optimal temperature range 20-22°C (68-72°F)
- Maximum temperature range 20-25°C (68-77°F)
- Ink storage 20-25°C (68-77°F)
- Optimum humidity range 40-60%
- Dust controlled environment preferred

All dimensions are in mm