

# Domino – we do more

## Domino inks

We develop TII inks that address our customers' needs and comply to the highest industry standards. Drawing on years of ink development expertise our TII inks deliver clear, durable codes onto a wide range of substrates.

- ◆ Rapid dry time and good adhesion on flexible films: line speeds up to 180 m/min for human readable codes.
- ◆ Long decap times ensure consistent code quality and maximised uptime.
- ◆ GMP and Swiss List compliant for food packaging applications.
- ◆ Codes that last: independently proven lightfastness, adhesion, rub, and scratch resistance.
- ◆ Easy installation: distance printhead to substrate up to 4mm.
- ◆ Pin-sharp codes, logos, and graphics complement the overall brand appearance.



## Technology talk

- ◆ TII is a digital coding technology that uses electrical heat to eject ink droplets and apply them to a substrate.
- ◆ It is particularly clean and easy to use: the simple replacement of the ink cartridge is the only maintenance required.
- ◆ Up to 600x600dpi enable printing with graphic quality.
- ◆ The printheads do not touch the product, but need to be guided closely to it with only a few mm distance.



## A complete solution

Our services are designed to provide operational insight so you can eliminate downtime and maximise production efficiency.

### Operational support

An outstanding level of care, wherever you are. Our SafeGuard packages provide high-quality, on-site assistance and AR-enabled remote guidance from our engineers. SafeGuard helps to ensure we can be with you when you need us most.

### Automatic code inspection

Ensure every code that leaves your factory is present and correct, and free up operator time. With the R-Series, Domino's range of vision control systems, you can automate your code inspection to validate code presence, placement, and readability.

### Control software

Minimise errors using Domino's QuickDesign software. Control your product codes from a central location and streamline product changeovers. QuickDesign uses standard communication protocols and can be integrated into existing ERP systems.

### Smart production

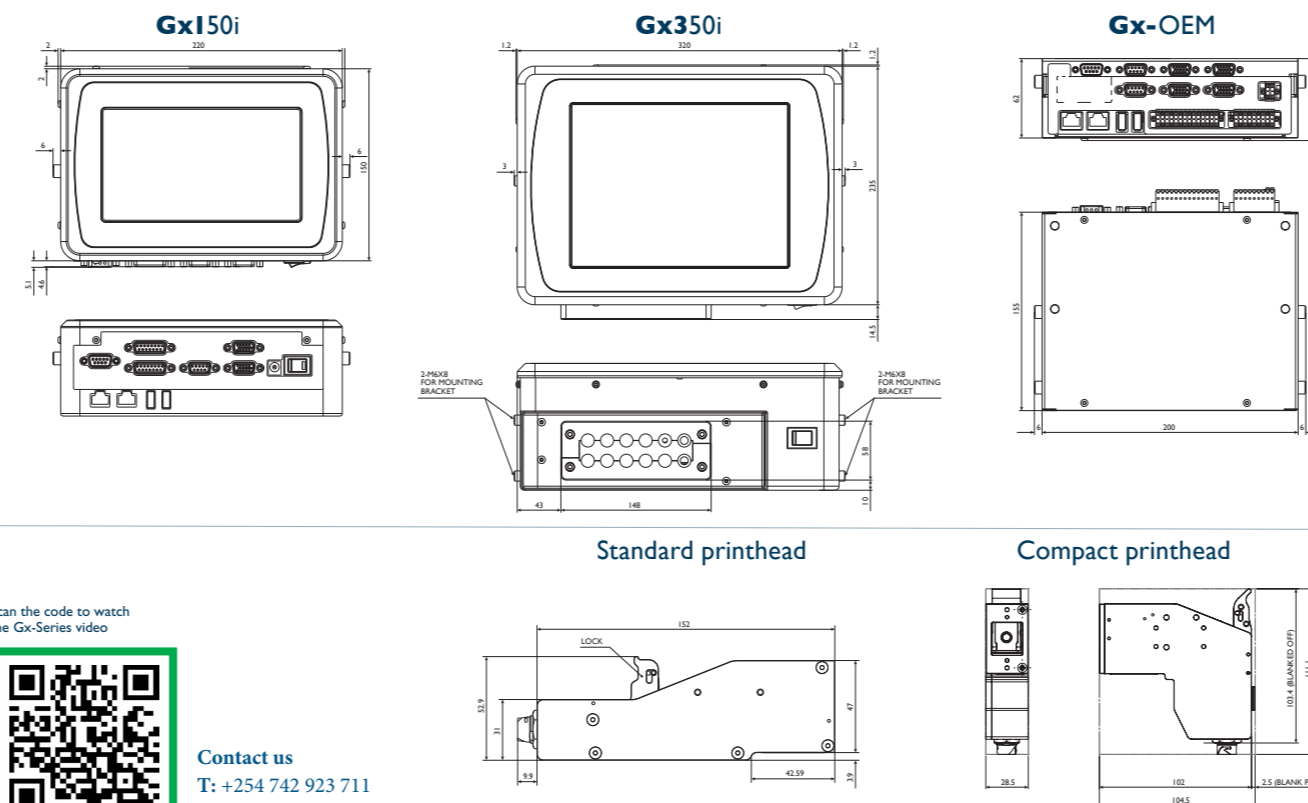
Gain operational insight by connecting your printer to Domino Cloud. Obtain production analytics dashboards and receive system error alerts. Domino Cloud provides you with the information you need to run your operations more efficiently.



## Technical specification

	Gx150i	Gx350i	Gx-OEM
<b>Controller dimensions</b>	Height: 75mm Width: 224mm Depth: 156.5mm Weight: 1.55kg	Height: 123.9mm Width: 322.4mm Depth: 250.7mm Weight: 6.4kg	Height: 64mm Width: 200mm Depth: 159.2mm Weight: 0.692kg
<b>Printhead dimensions</b>	Standard printhead: height 152mm, width 50.9mm, depth 28.5mm, weight 0.22kg Compact printhead: height 98.5mm, width 93.4mm, depth 28.5mm, weight 0.17kg		
<b>Printhead cables</b>	1.5, 3, 6, 12 or 25m		
<b>Printheads per controller</b>	Up to 2 printheads for increased message height or individual printing on 2 different print positions	Up to 4 printheads for increased message height or individual printing on up to 4 different print positions	Up to 4 printheads for increased message height or individual printing on up to 4 different print positions
<b>Print height</b>	1 printhead: 12.7mm 2 printheads: 25.4mm	1 printhead: 12.7mm 2 printheads: 25.4mm 3 printheads: 38.1mm 4 printheads: 50.8mm	1 printhead: 12.7mm 2 printheads: 25.4mm 3 printheads: 38.1mm 4 printheads: 50.8mm
<b>Print speed and resolution</b>	300m/min at 60dpi to 30m/min at 600dpi		
<b>External connection options</b>	1 encoder, I/Os for beacons, product detects or other; 2 USBs (type A), RS232C, 2x LAN	2 encoders, I/Os for beacons, product detects or other; 2 USBs (type A), RS232C, 2x LAN	2 encoders, I/Os for beacons, product detects or other; 2 USBs (type A), RS232C, 2x LAN
<b>Power connector</b>	6mm DC power jack	3-way plug	S2C 3.5mm, 4-way, terminal block
<b>Electrical supply</b>	Input: 100-240 V AC, 50-60 Hz, 2 A	100-240 V AC, 50-60 Hz, 3.5 A	24V DC, 4 A
<b>Controller operating temperature</b>	0° - 40°C (32° - 104°F)	0° - 45°C (32° - 113°F)	0° - 45°C (32° - 113°F)
<b>Operating relative humidity</b>	20 - 80% RH (non condensing, 10°C increase per hour)		
<b>Controller finish</b>	Stainless steel		
<b>Inks</b>	A range of fast drying water and solvent based inks for porous and non-porous substrates, black, colours, and specialist inks		
<b>i-Techx features*</b>	Automatic ink cartridge detection, automatic ink parameter setting, automatic ink level recording		
<b>Communication</b>	Ethernet / Dynamark protocol, EDC (serial, TCP, USB)	Ethernet / Dynamark protocol, EDC (serial, TCP, USB) optional; fieldbus protocols	Ethernet / Dynamark protocol, EDC (serial, TCP, USB) optional; fieldbus protocols
<b>User interface</b>	<b>QuickStep</b> via 7" touch screen or customer HMI	<b>QuickStep</b> via 10" touch screen or customer HMI	<b>QuickStep</b> via customer HMI
<b>Continuous operation options</b>	Bulk Ink system for long-run operation, <b>AutoSwap</b> for uninterrupted production		

\*This product has a Quality Management System that means that it will only work with Domino circuitry, and it uses dynamic security measures to block non-Domino circuitry from being used. From time to time updates to the circuitry will be issued by Domino to maintain the effectiveness of the Quality Management System.



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# Gx-Series Thermal Ink Jet Printers

Clean. Clear. Coding.



# Trusted thermal ink jet coding solutions

Gx-Series printing solutions are versatile, easy to integrate, easy to operate - the perfect fit on many printing applications and substrates. With latest networking technology and producing graphic code quality, the Gx-Series is ideal, not only for batch and date coding, but also for complex code formats, check weighing, and track & trace applications across FMCG industries.

If you are looking for a coding solution that is designed for high resolution printing at high line speeds with complete reliability, Gx-Series thermal ink jet (TIJ) printers can meet your needs.



## Life sciences

Legislative requirements call for unique item level identification. Gx-Series printers ensure coding in compliance with pharmaceutical regulations (e.g. EU FMD, US DQSA) according to GS1 standards and can be included into a 21 CFR Part 11 validated system.

## Electronics and industrial

Gx-Series prints lasting, rub and scratch resistant codes, logos and graphics on electronic components, metal, aluminium, or PCBs. Rapid dry times and good adhesion deliver optimum performance on fast paced production lines.



## Fast moving consumer goods

For the variety of coding requirements within the FMCG sectors, Domino has developed an ink range that is suitable for all packaging levels – from flexible films to porous shelf ready packaging and shipping boxes.



# Ready for the future

## Easy to integrate

- ◆ Small footprint: easy printhead integration and remote controller mounting.
- ◆ Track & trace and item level serialisation via Dynamark protocol: 21 CFR Part 11 compliant, audit trail with comprehensive user administration, validation documentation available..
- ◆ The Gx-OEM controller model is optimised for control cabinet integration.

## Easy to operate

- ◆ Effortlessly run printers through the feature-rich touchscreen interface or remotely via web browser. Create and edit labels directly on board.
- ◆ Automatic cartridge recognition and ink parameter setting.
- ◆ Continuous Operation: for uninterrupted production the AutoSwap functionality enables cartridge change while printing. A Bulk Ink system is available for longrun operation without the need for any operator intervention.
- ◆ Multiple printhead capability for dual-sided box coding, message heights up to 50.8mm or 4 individual applications.



## Easy to network

- ◆ Fieldbus options like EtherCAT and Ethernet/IP: fast data transfer, integration with PLCs and precise synchronisation for motion control systems.
- ◆ External data capture (EDC) directly onto the controller for promotional coding or check weigher applications.
- ◆ Remote controlling Gx-Series printers is simple using the web browser interface.



## Clean. Clear. Coding.

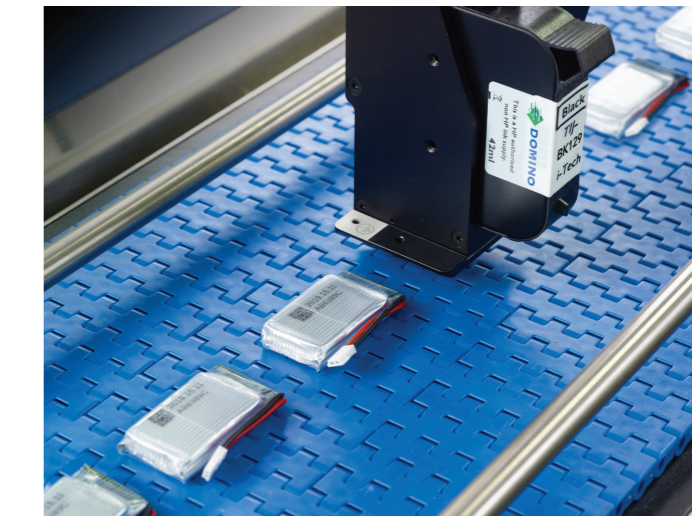
- ◆ Graphic printing quality, on paper, card, plastic, metal, and many other materials.
- ◆ Flexible label design: text, counters, clocks, graphics, logos, barcodes can all be included on the same label.
- ◆ Grade A code readability (ISO 15415) using Domino's inks on high density datamatrix codes.\*

\*Substrate dependent



## Gx-Series printheads

- ◆ Easy fit: three connector options (front, back, top) on 2 printhead variants are available: the standard printhead (152mm high) and the compact printhead (93.4mm high).
- ◆ LED status signals show the print status, e.g. which cartridge needs changing.
- ◆ Maintenance-free: exchange of the ink cartridge replaces all printer wear parts.
- ◆ Error-free coding with automatic ink parameter setting.



## User interface

Domino offers a range of interfaces on the printer, on a PC and directly to our Cloud based dashboards.

- ◆ Easy operation using the QuickStep interface on the touch screen or via web browser on your HMI.
- ◆ Connecting to Domino Cloud gives you 24/7 visibility of the printer's performance and utilisation, allowing you to drive overall equipment effectiveness (OEE) and maximise your profitability.
- ◆ User access levels can be defined to ensure safe handling.
- ◆ Label creation and editing are simple using the QuickStep Label Creator or our PC-based design software.
- ◆ Coding Automation solutions to populate data directly from a database and control changeovers from your ERP or MES system.



## Built to fit

### Gx150i

Batch, date & time, barcodes using 1 or 2 printheads; serialisation option.



### Gx350i

Controls up to 4 printheads, IP64 rated controller for dusty or wet environments, fieldbus option.



### Gx-OEM

Seamlessly integrates with production machinery, controls up to 4 printheads, fieldbus option.

