

# Direct-to-box coding solutions

Minimise waste, reduce cost and drive manufacturing efficiency with high-resolution inkjet technologies

The technology underpinning high-resolution inkjet printing has made great headway in recent years. It not only offers a compelling route to general on-line variable printing/coding but also provides late-stage customisation and case decoration solutions, potentially reducing the number of pre-printed variants needed. As an alternative to print & apply labelling technology it also offers reduced waste, with the potential to also reduce running costs.



Our **Gx-Series** and **G50i** printers utilise thermal inkjet technology to print up to 26.1mm high from a single printhead, with the ability to combine up to four printheads for larger print areas. The cartridge contains the ink and printhead assembly. Cartridges can be changed within seconds once the ink is depleted to ensure seamless operation. This simplicity makes our thermal inkjet printers a popular choice. With both water-based and solvent-based inks, the **Gx-Series** range and **G50i** offer solutions for coding onto both porous and non-porous materials.



Our **Cx-Series** printers utilise piezo inkjet technology to print up to 65mm high from a single printhead, with the ability to combine printheads for larger print areas. Ink is supplied in 500ml – 1400ml volumes, so ink replenishment is infrequent and can be performed without stopping the production line. Vegetable oil-based inks are perfect for porous surfaces, while UV-curable inks create high-quality codes onto non-porous materials, including varnish-coated secondary and shelf-ready packaging.

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**Domino. Do more.**



## Technical specifications



	G50i		Gx150i		Gx350i / Gx-OEM		Cx150i UV		Cx350i	
	Single head only	EXT head variant	Std head variant	EXT head variant	Std head variant	EXT head variant	32.5mm head variant	65.0mm head variant	Std head variant	Remote head variant
Print height per printhead	12.7mm	26.1mm	12.7mm	26.1mm	12.7mm	26.1mm	32.5mm	65.0mm	65.0mm	65.0mm
Max. number of printheads	1	1	2	2	4	4	1	1	4	4
Max. print height (with stitching <sup>1</sup> )	12.7mm	26.1mm	25.4mm	52.2mm	50.8mm	104.4mm	32.5mm	65.0mm	260mm	260mm
Side of box printing (horizontal conveyor)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Top of box printing (horizontal conveyor)	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Incline ±25°	✗	✗	✗	✗	✗	✗	✓	✓	✗	✓
Substrate	porous/ non-porous	non-porous	porous/ non-porous	porous/ non-porous	porous/ non-porous	porous/ non-porous	porous <sup>2</sup> / non-porous	porous <sup>2</sup> / non-porous	porous only	porous only
Target applications	<div><div>Lower capital cost, well suited to lower throughput</div><div>Lower cost per print, well suited to higher throughput</div></div>									
Connectivity	Can be connected to a PC for label creation		Printers can be networked to PC-based label creation and ERP integration packages. Domino's own protocols can be used to connect to a range of processing & packaging machinery. Fieldbus options are also available							
Ambient temperature <sup>3</sup>	5-50°C		0-40°C		0-45°C		5-40°C		5-40°C	
Power consumption <sup>4</sup>	60W		37W		40.8-60W		180W excluding UV curing source		105-140W	
Printer resolution	up to 600dpi		up to 600dpi		up to 600dpi		up to 600dpi		up to 300dpi	

1. Messages which straddle multiple print heads can be created in the printer software. It is important to understand mechanical/installation limitations here, however, and applications should be talked through with Domino. This applies especially to applications where it's proposed that barcodes/machine-readable codes straddle multiple print heads.

2. UV curable ink must be cured on all substrates, including porous materials.

3. This temperature window refers to the operating window of the printer itself. Operating windows for individual inks may vary from this. Further information on individual inks can be found on the ink Product Datasheet.

4. For G50i a maximum power consumption figure is used.

For Gx-Series printers the test conditions are 2 x USB, GPIO Product Detect & Encoder x 2. Gx150i maximum power consumption of 37W (with 2 printheads). Gx350i maximum power consumption of 60W (with 4 printheads). Gx-OEM maximum power consumption of 40.8W (with 4 printheads).

For Cx350i: Test conditions: 1 x print head (estimated worst-case 12W per head), 2 x encoders, 3 x USB (incl. 1 UI estimated max 8W), 1 x GPIO. Additional printheads will add 12W per printhead.

## A complete solution

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



### Automation

Centralise your label management: **Domino Automation** easily integrates into your manufacturing process as well as your ERP/MES systems. It makes automatic changeovers safe and simple, helping you to reduce waste and drive sustainability initiatives while increasing productivity and efficiency.

### 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.

### 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.

### 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.



## TALK TO AN EXPERT

Telephone: +44 1954 782 056

Website: [www.domino-printing.com](http://www.domino-printing.com)