G2-CPT

High Speed Industrial Digital Printer
Primarily Used For **Blankets, Carpets, Plush** and **Flannel.**

dpi

Consistent Color Laydown
True-to-Design Color Matching



Making Industry Smarter!

High-Volume Production

Precision Color Laydown for Heavy Fabrics

Configurable for up to 64 Dimatix printheads, the G2-CPT targets carpets & heavy fabrics to lift production output and print quality.Its custom ink delivery system works with disperse inks for deep fiber penetration and consistent full-width coloration.With customizable widths and proven print technology, it delivers efficient all-in-one printing for all heavy fabrics, consistently meeting premium quality standards.



Up To
64 Print Heads

Up to 8
Color Channels

Full-circulation
Ink System

Applicable Fabrics: Blankets, Carpets, Plush and Flannel.





A Fabrics Feeding System

Segmented (detachable) feeding system enabling convenient transport & Installation. Multi-purpose fabric feeding structure, integrating fabric stretching, centering, and constant-tension control devices. Widely adapted to various textile fabrics, including knitted and woven fabrics. Dancing press roller with both continuously compensated stepping and continuous movement capabilities, ensuring operational stability. Supports flexible switching between large and small roll sizes, comprehensively meeting diverse production scenarios.

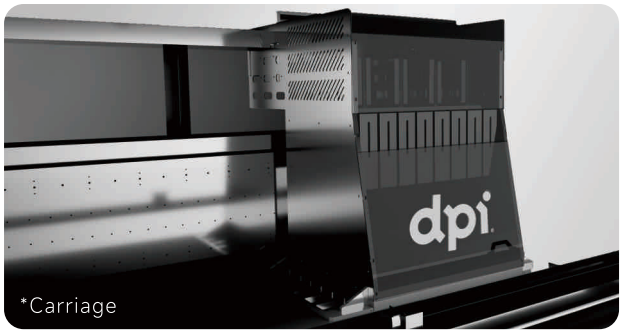
B Scalable To Various Application Scenarios

G2-CPToffers a printing width ranging from 2600 mm - 3400 mm, flexibly catering to diverse production needs. Configured with up to 64 print heads and supports 6~8 color channels, accurately reproducing rich colors. With its full-circulation ink system, it is compatible with various inks such as reactive, acid, disperse, and pigment inks, and suitable for different textile fabrics.

C Uniform Drying Process

Through a symmetrical cyclic air duct design and a precise temperature control system, the temperature deviation in each area inside the oven is controlled within an extremely small range. This ensures that the textile fabrics are heated uniformly and stably during process steps such as drying and color fixing, effectively avoiding problems such as uneven fabric color and performance damage caused by excessively high or low local temperatures.





*Carriage


*Multiple Protection Devices

Print Heads & Ink Supply System

- Supports multi-specification printing widths, adapting to more production scenarios.
- Full-circulation ink system with automatic standby circulation, effectively preventing print head drying.
- Independent temperature control system automatically adjust print head temps to achieve stable jetting performance.
- Supports control nozzle voltage adjustment divisional to achieve stable and consistent jetting volume.
- Equipped with the defoaming device, avoiding discontinuous ink ejection & breakage due bubbles in the ink.

Multiple Protection Devices

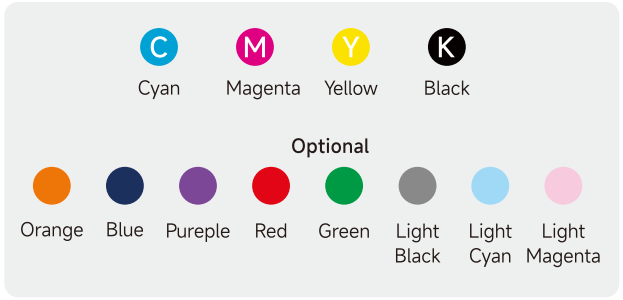
- Anti-crash devices with an extra layer of protection on the carriage to protect the print head against crash more effectively.

Software & Electronic Control

- Self-developed mother board and printhead control system.
- Precision waveform setting to achieve stable jetting capacity.
- High-precision printing belt control, precisely control step transmission to ensure printing accuracy.
- Integrated unique feathering mode, customized feathering settings to eliminate the overlap issues.

Abundant Colors Solution

- Abundant ink solution options, supporting flexible multi-color configurations, deliver prints with delicate gradient color and brilliant rich color.






*G2-CPT

High-Efficiency Heating Room

- Symmetrical circulating air duct design, supporting single-layer or multi-layer fabric threading modes.
- Multiple heating methods: electricity, natural gas, thermal oil, steam, etc.
- Adapts multi-section heating room design, flexibly adapatable and configurable as production needs.

Intelligent Touch for Easy Operation

- Belt washing system with automatic real-time water spraying, ensuring effective belt cleaning whilst conserving water.
- Flexible queues management for continuous printing, unattended production
- Front & rear operation touch screens with interlock protection: easier and safer operation
- One - click print button to simplify sample printing.
- Real-time display of printing progress, convenient for management.

Inline Fabrics Feeding System

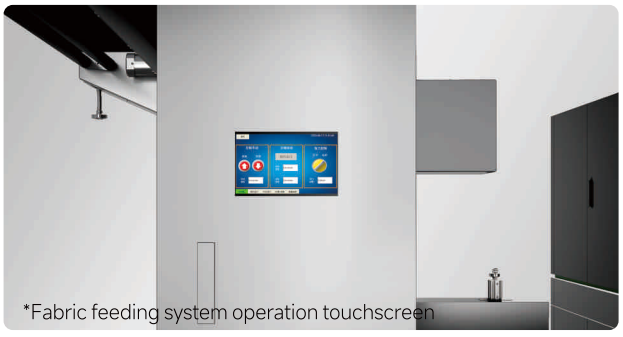
- Customizable feeding system tailored for diverse textile types.
- Segmented (detachable) feeding system enabling convenient transport & installation.

Belt Washing System

- Belt washing system with automatic real-time water spraying, ensuring effective belt cleaning whilst conserving water.
- Equipped with double brush rollers, sponge rollers, air blade, water-absorbing rollers and drying system, effectively ensures the cleanness of the belt.
- The scraper can flexibly adjust the angle according to the actual cleaning effects.

Mechanical Structure

- Specialized steel beam structure design minimizes beam deformation risks.
- High-performance belts and transmission components with high-standard materials to ensure steadiness of machine body.
- Long-frame modular design, a longer belt than competitors stabilizes knitted fabric separation from the belt during unwinding.


*Fabric feeding system operation touchscreen


*Belt washing system

Technical Data

Model	G2	G2 XL
Print head	Dimatix SG1024	
Max printing width	2600 mm	3400 mm
No. of print head	48 ~ 64	
Colors channel	6 ~ 8 Colors	
Resolution	400~1600 dpi	
Drop size	7~160 pL	
Height of platform	980 mm	
Air	0.6 Mpa	
Power supply	Three phase 5 wires 380V	
Power	30 KW	
Dimension (L×W×H)	5000×5850×2350 mm	5000×7250×2350 mm
Weight	8,000 kg	10,000 kg

Based on 2600 mm printing width

		G2-48 (6×8)	G2-64 (8×8)
Resolution (dpi)	No. of printing pass	Printing speed @m/h	Printing speed @m/h
360×400	1	301	380
360×800	2	165	212

Based on 3200 mm printing width

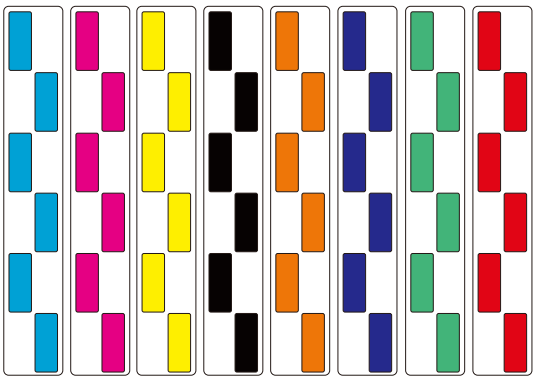
		G2-48 (6×8)	G2-64 (8×8)
Resolution (dpi)	No. of printing pass	Printing speed @m/h	Printing speed @m/h
360×400	1	266	338
360×800	2	143	186

*Bidirectional printing speed is for reference only; actual speed depends on on-site production performance.
Specifications are subject to change due to upgrades, without prior notice.

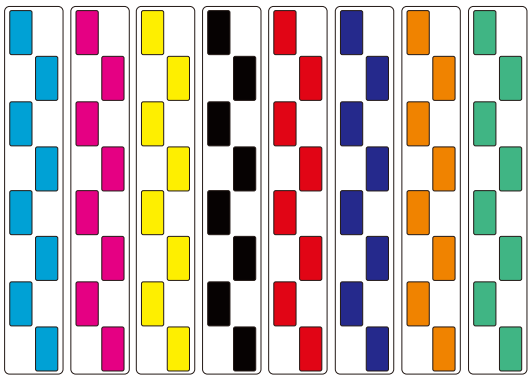


*6~8 Colors / 48~64 Print heads
*Additional colors
available for customization

6 Rows / 8 Colors



8 Rows / 8 Colors





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