Brother Garment Printers Solve a Wide Range of Business Challenges

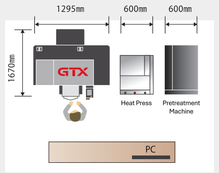
ASSIGNMENT 01 — When large-scale equipment or extensive production space cannot be secured

Compact Design Allows Installation in Limited Spaces

Production can be carried out in unused space while keeping existing factory equipment as is, helping minimize capital investment when building a new business model.

Garment Printer
+
Heat Press
+
Pretreatment Machine
Together fit within 3m²

*The size and configuration of the heat press and pretreatment machine vary depending on the manufacturer.



Suitable for a Wide Range of Business Scenarios

By bringing work that was previously outsourced in-house, lead times caused by outsourcing can be shortened, enabling a smoother and more flexible manufacturing system.


Store

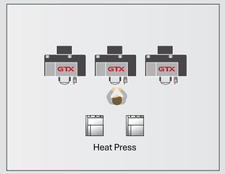

Factory

ASSIGNMENT 02 — When you want to increase production capacity with limited resources

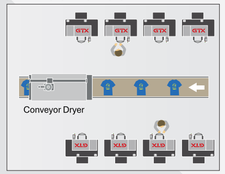
Improve Production Capacity by Combining with Existing Equipment

With Brother's diverse lineup of garment printers, overall factory production capacity can be improved while making use of existing equipment. Even with limited space or personnel, an optimal production line can be built through well-planned equipment placement and layout.

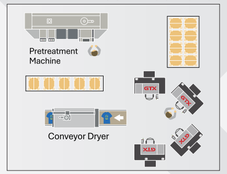
Example (1)
[GTX300NC] + [Heat Press]



Example (2)
[GTX300NC] + [Conveyor Dryer]



Example (3)
[Pretreatment Machine (PT LINE)] + [GTX300NC] + [Conveyor Dryer]



ASSIGNMENT 03 — Supporting Sustainability

Improve Production Efficiency While Keeping Costs Low and Reducing Environmental Impact

The use of replaceable pouch ink reduces plastic waste. In addition, the water-based pigment inks, pretreatment agent, and cleaning solution are made from environmentally conscious raw materials (ECO PASSPORT certified), and can be used with confidence even for children's clothing.

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Specifications

Model Name	GTX300NC
Printing Method	Direct-To-Garment Printing Using Piezo Inkjet Technology
Head	Piezo Type / 2 Units
Resolution	1200dpi x 1200dpi
Ink	Water-Based Pigment Ink
No. of Colors	5 Colors of CMYKW
Standard Platen	Regular Platen 355.6mm x 420.1mm (14inch x 16.54inch)
Printable Area	Maximum: Wide Platen 406.4mm x 533.4mm (16inch x 21inch)
Operation Panel	7-Inch Touch Panel
Interface	100BASE-TX / 1000BASE-T (LAN Port) SuperSpeed USB3.0 (For USB Memory) Hi-Speed USB2.0 (For PC Connection)
External Dimensions	1295mm x 1465mm x 583mm (when platen is stored); 1295mm x 1670mm x 583mm (Max. External Dimensions)
Weight	approx. 125kg (Including Platen)
Installation Conditions	Single-Phase 100-240V (Power Supply Voltage Fluctuation within ±10%), 50/60Hz
Power Consumptions	When Active: 180W or less
Recommended Printing Environment	[DTG] Temperature: 18 ~ 30°C; Humidity: 35 ~ 85% (no condensation should occur) [DTF] Temperature: 19 ~ 30°C; Humidity: 35 ~ 65% (no condensation should occur)
Working Environment	[DTG] Temperature: 10 ~ 35°C Humidity: 20 ~ 85% (no condensation should occur) [DTF] Temperature: 10 ~ 35°C Humidity: 20 ~ 65% (no condensation should occur)
Fixation Conditions	[DTG] Conveyor Oven: 160°C for 3.5 mins, or Heat Press: 180°C for 35 sec* [DTF] Powder Fixing: Conveyor Oven at 160°C for 5 mins Transfer: Heat Press at 150°C for 20 sec (+ additional press for 20 sec)* *Time and temperature required for fixing vary depending on the equipment.
Pretreatment	Pretreatment is required when using white ink for DTG printing. Before printing, apply pretreatment using a pretreatment machine, then be sure to dry with a heat press.

Software

OS	mac OS 14.0 Sonoma; mac OS 15.0 Sequoia Windows 11 (64bit)
Mini. Operating Env.	CPU: 2 GHz or higher; RAM: 8 GB or more; For creating DTF data, 16 GB or more RAM is recommended.
Software Package	Dedicated printer driver Design tool GTX Graphics Lab
Recommended Applications for Advanced Image Editing	Adobe® Photoshop CC Adobe® Illustrator CC

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•Mac OS is a trademark of Apple Inc., registered in the United States and other countries.
•Adobe® Photoshop® and Adobe® Illustrator® are registered trademarks of Adobe Inc. or its affiliates.
•For the latest supported OS and software environments, please refer to our website.

Brother has established the "Brother Green Label," which complies with the international standard ISO 14021 and the Japanese Industrial Standard JIS Q 14021. GTX has also been certified as an environmentally conscious product.

Brother GTX complies with the RoHS Directive enforced in the EU (European Union), which restricts the use of six specified chemical substances that are harmful to the natural environment and human health: cadmium, lead, hexavalent chromium, mercury, PBB, and PBDE.

RoHS対応
Complies with the content restrictions for regulated chemical substances specified in the European Union RoHS Directive.
This logo mark is independently defined by Brother.

brother

Before use, please read the instruction manual carefully and use the product with caution. Be sure to get the warranty card with the prescribed items completed from the retailer where you purchased the product.

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Provided by:

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Garment Printer Catalog

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at your side

Combining Speed and Beauty - Professional Manufacturing with One Machine

GTX

GTX300NC

GTX300NC - *Delivering Advanced Specifications and Outstanding Quality*

GTX GTX300NC

Brother's Garment Printer Delivers High Productivity and Exceptional Print Quality

The GTX300NC is a high-performance garment printer that applies ink directly onto apparel. With exceptional print speed and superior image reproduction, it helps deliver both high productivity and outstanding quality.

The main unit, printheads, and inks are all produced in Japan, and have been independently developed with a dedicated design based on technologies cultivated over many years. Since entering the sewing machine business in 1908, Brother has supported the apparel industry. Since 2005, Brother has also pioneered the garment printer field.

Leveraging this technology and proven track record, the GTX300NC is designed to support professional manufacturing environments.

High-Speed Printing
Dedicated printheads deliver high productivity

Exceptional Image Reproduction
High resolution × Vivid color × Beautiful Print even on uneven surfaces

Versatile Material Compatibility
Supports a wide variety of materials not limited to apparel

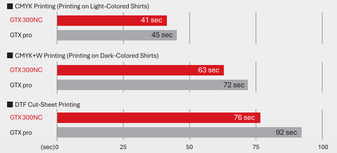
High-Speed Printing

Newly Developed Printheads Further Enhance Print Speed

The new printheads increase the ink ejection frequency, while the faster carriage speed further enhances print speed.

Prints Light-Colored Shirts in approx. 40 sec and Dark-Colored Shirts in approx. 60 sec

Print Speed Comparison



*Measurement time is from pressing the print button until the platen is unloaded.
*Print speed may vary depending on conditions such as the design, size, and print settings.

Exceptional Image Reproduction

Keep High-Definition Designs Vivid for Longer

Brother genuine "innobella TEXTILE" ink delivers a wide color gamut and high color saturation, accurately reproducing bright, vivid colors and fine details.
Its high wash fastness also helps maintain beautiful prints even after repeated washing. (AATCC Wash Fastness Test: Grade 4)

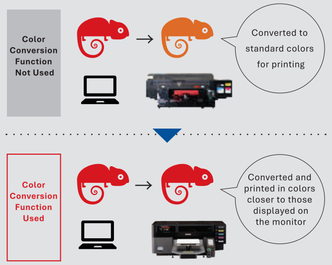
innobella TEXTILE

AATCC

More Natural Colors and Visual Impressions

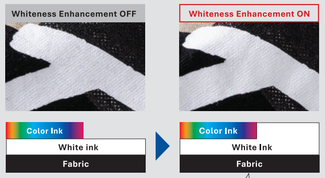
With the color conversion function (ICC profile), colors can now be converted and printed closer to what is shown on the monitor.*

*Depending on the fabric material and color, as well as the pretreatment condition, the printed colors may not necessarily appear close to those shown on the monitor.



Sharper and Brighter White-Color Output

Equipped with a whiteness enhancement function that increases whiteness while helping prevent color bleeding, white areas now appear sharper and brighter.



Color areas: Same ink volume as before
White-only areas: Increased white ink volume

*Depending on the fabric material and color, as well as the pretreatment condition, the difference may be difficult to see.

Versatile Material Compatibility

Brother garment printers support both DTG and DTF printing. In addition to natural materials, DTF printing can also be used on synthetic fibers such as polyester,* meeting a wide range of customer needs.

*DTF printing may not support all synthetic fibers depending on the combination of consumables and material. Prior testing is recommended.

DTG (Direct to Garment)

A printing method that prints directly onto the fabric of cotton products such as T-shirts. Printing is also possible on any natural material.

- Reproducing Smooth Gradients and Soft Transitions
- High-Speed Printing
- Preserves the original fabric texture and hand feel

DTF (Direct to Film)

A method that outputs data onto film to create transfer sheets for printing on commercial products. It supports a wide range of materials, not only natural materials.

- Precise expressive capability
- High wash durability
- Transfer onto synthetic fiber materials is also possible

Designed For Greater Ease Of Use And Operator Comfort

Compact Design For Easy Installation

With its compact design and front operation, the printer can be used efficiently even in locations with limited installation space.

105 mm narrower than the previous model

All consumables can be replaced from the front of the machine

Smoother DTF Printing

The adoption of magnetic fixing for DTF film* makes film setting easier and more manageable.

*Regular platen and wide platen only.

Touch-Panel Operation Enhances Usability

The touch panel screen enables intuitive operation. Illustrated operating instructions are also displayed, allowing even first-time users to operate the printer with ease.

Equipped with a 7-inch touch panel

Visualization and Centralized Management

Software is available that automatically collects printer status in the cloud and allows the total number of prints and error information to be checked in real time on a dashboard.*

*A network connection is required.