ATPColor Srl
DFP2000 5.3-meter textile inkjet printer

THE WIDEST TEXTILE PRINTER IN THE WORLD WITH INTEGRATED, INLINE FIXATION

5.3-meter grand-format textile printers are challenging to build and require other equipment for finishing. That's why there are so few options in the market. We at ATPColor decided to create a new system that changes the paradigm of grand-format textile printing.

There are many challenges to focus on when printing super-wide. We've developed a new workflow to keep these obstacles to a minimum.

1. **Inline Fixation**
   5-meter offline fixation has several challenges, from handling 5 meter materials (loading and unloading both the printer AND the calender) in addition to loading 5-meter protective tissue paper to production inefficiencies of a two-step process. Additionally, with today's very quick turn-around for jobs, printing and removing a job from the press as it's completed can help in the "quick turn" nature of today's business.
2. **Media Width Flexibility**
   Many companies will gang multiple images up on a 5-meter roll and cut them after printing. The DFP2000 features the ability to simultaneously print on two different width rolls, allowing the customer to print a 1-meter wide roll next to a 2.6-meter width roll. This gives the customer the ability to maximize the entire system when not needing 5-meter output and the flexibility of multiple rolls.
3. **Media Loading**
   Media loading can be quite costly in many grand-format inline textile systems. The DFP2000 has an integrated ultrasonic automatic sewing system to attach new rolls, significantly reducing waste as there is no need to completely web the system on roll change-outs.
4. **Fabric Tension Adjustments**
   Textile, compared to paper or vinyl, has some unique challenges inherent to its structure. Many times, different fabrics can perform very differently in a printer when printing direct. The DFP2000

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features several ways to adjust the fabric tension so the system prints consistently and reliably regardless of the type of fabric, such as a woven backlit, knit poplin, soft-knit, heavy-knit, etc.

5. **Patented Inline Calender**

   The DFP2000 features an extremely sophisticated heating drum integrated into the printer; a first of its kind. The patented heating drum is designed for consistent and repeatable fixation, print after print.

6. **User Friendly Design**

   Ease of use is another strength of the DFP2000. The system has been designed with the operator in mind, with simple maintenance procedures and easy-to-access panels for any electronic maintenance.

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Technical Specifications:

Print Width	530cm
Print Heads	Ricoh G5 -6/12 Head Configuration
	Kyocera 4/6/8 Head Configuration
Number of colors	4/6
Resolution	Up to 1200x600dpi
RIP Software	Open to Major RIP Vendors:
	Caldera, Ergosoft, Onyx, Colorgate
Print Speed, 4 color, 2 pass, smooth-screening	6 Ricoh G5: 120 sqm/h
	12 Ricoh G5: 240 sqn/h
	4 Kyocera: 160 sqm/h
	8 Kyocera: 320 sqm/h
Ink System	4/6 colour, 5 litres each
Calender Type	Patented, proprietary heating drum designed specifically for the DFP2000
Max Fixation Temperature	200 °C
Max Roll Weight	200Kg
Max Fabric Roll Diameter	400cm
Optional Accessories	Inline Cutting System
	Inline Sewing System
	Jumbo roll option, Take-up, Supply
Dimensions	780x230x200cm (Without take up and Supply)
Weight	6.500 Kg
Environmental Requirements	20-25 °C – Humidity 45-80%

All specifications subject to change without previous notice

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ATPColor's Common Points of Strength

No 1+1

A complete Direct-to-Fabric solution; it is a single process from printing to cutting.
Does not need separate calender
Does not need transfer paper
Does not need protective paper
Easy unattended Workflow

High Speed

High speed printing and fixation with a simplified workflow. The return on investment it is much faster when reducing production bottlenecks and simplifying the processes.

No toaster

We have direct contact between the printed surface of the media and the heated surface of the calender.
Heat, dwell time and contact are needed to fix the color. Other solutions for direct printing have no contact…just the toaster.

Show through

Our solution provides flags with a perfect show through. Flags appear to be printed double sided…both in solid colors and continuous tone images.

No Banding

The ATPColor direct-to-fabric printing system features two precision stepping motors and synchronized dancing rollers that automatically fine tune the media feeding process to ensure precise movements with every pass of the print head. Adjustable interleave technology delivers perfectly smooth image details and no banding.

Inline Cutting

The production process is made easier and faster by an optional slitting system. The system uses cold knife technology to make sharp flawless cuts.
The Inline Cutting System can be stopped or paused without creating defects in the printed fabric — a significant advantage over traditional hot knife systems.

New Inks

ATPColor's inks have been specifically formulated to deliver exceptional colour gamut and fastness to sublimated graphics. No washing needed.
Print • In line Fix • Deliver to customer

UV Resistant

Dedicated inks, direct printing and state-of-the-art color fixation deliver a high UV resistance compared to traditional paper transfer printing.

Green solution

We make the best possible usage of the heating power. Our system has power consumption that's 1/5 or 1/3 of other solutions on the market.

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