SP2-TEX

Single-Pass High-Speed Industrial Digital Printer
Primarily Used for Home Textiles, Apparel Fabrics and Plush

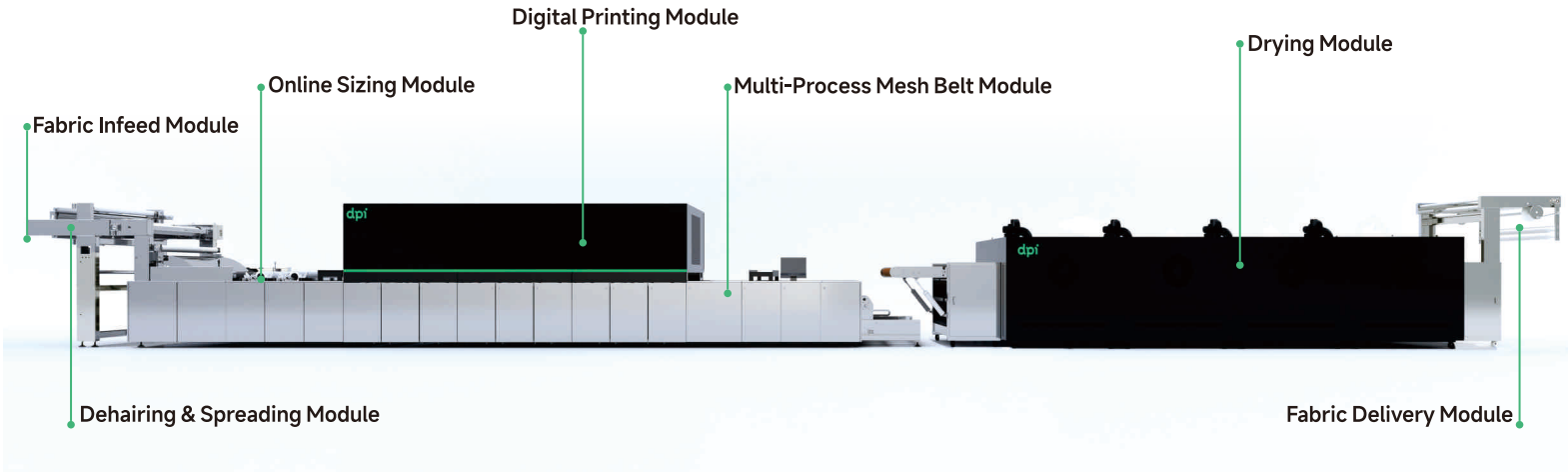
Single-Pass High Speed Digital Printing
Deliver Efficient High-volume Production



Making Industry Smarter!

SP2-TEX

High-Speed Digital Textile Printing Solution



SP2-TEX Key Advantages

- **Modular Hardware Architecture:**
  Innovative modular design supports flexible expansion of color channels for future needs.
- **DPI In-house System Software**:
  Deeply adapted to the hardware, enabling precise control of printhead status, ink output, and color calibration for efficient, stable printing.
- **Full-Width Closed-Loop Temperature Control:**
  Automatically monitors and controls water temperature to ensure consistent color output in batch production.
- **Dual-Purpose Fabric Feeding Rack:**
  No hardware changeover required; compatible with knitted and woven fabrics for quick switching between order types.
- **Integrated Production-Line Configuration:**
  Supports online sizing and multi-process configurations, integrating sizing, printing, and drying into one production line.

Efficient, Flexible Production

Versatile Printing Processes

Consistent Print Quality

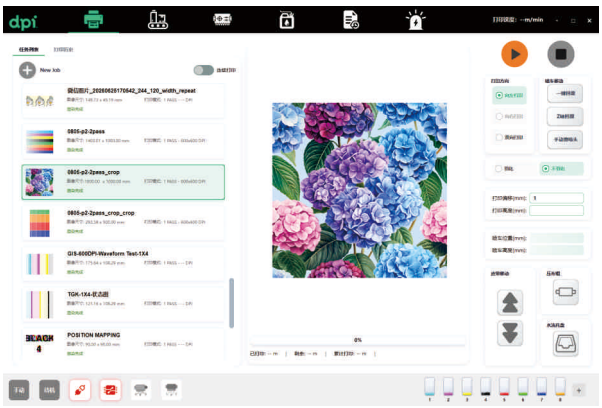
Eco-Friendly, Low-Carbon Production

Single-Pass Technology,
Proven in Production

With nearly 2,000 Single-Pass installations operating worldwide, DPI brings proven expertise to digital textile printing. Our European R&D team has developed proprietary software and control systems tailored to textile printing. The entire machine is designed to European standards.



* DPI SPAIN



* DPI Software Interface

DPI Software Advantages

- Built-in RIP functionality, alongside market-leading RIP software compatibility.
- Software enables correction of print-area color differences to ensure consistent color output.
- User-friendly interface; all machine parameters can be adjusted from one software interface.
- Data interfaces compliant with RESTful API standards, enabling connection to digital factory systems.
- Free lifetime software upgrades.

Retractable Print Channels
Easy Maintenance, Continuous Production

- The SP2 features retractable print channels and an independent lifting mechanism.
- Each channel supports two colors, with a compact layout for easy maintenance.
- The independent lifting structure allows idle channels to be sealed and protected while the machine continues production, enabling separate maintenance and improving printhead protection and utilization.

Full-Circulation Temperature-Controlled Ink System
Adaptive Ink Delivery

- Equipped with a dedicated full-circulation ink path, temperature control and adaptive pressure regulation, the system automatically adjusts parameters according to actual ink consumption. It delivers stable printing on both small and large patterns, including high-density designs, while reducing light-color banding and missing jets.

Ink Types	
Reactive Ink	√
Acid Ink	√
Disperse Ink	√
Pigment Ink	√
Fabrics	
Natural Fibers	√
Artificial Fibers	√
Synthetic Fibers	√
Plush Fabric	√

*For more details, please contact DPI

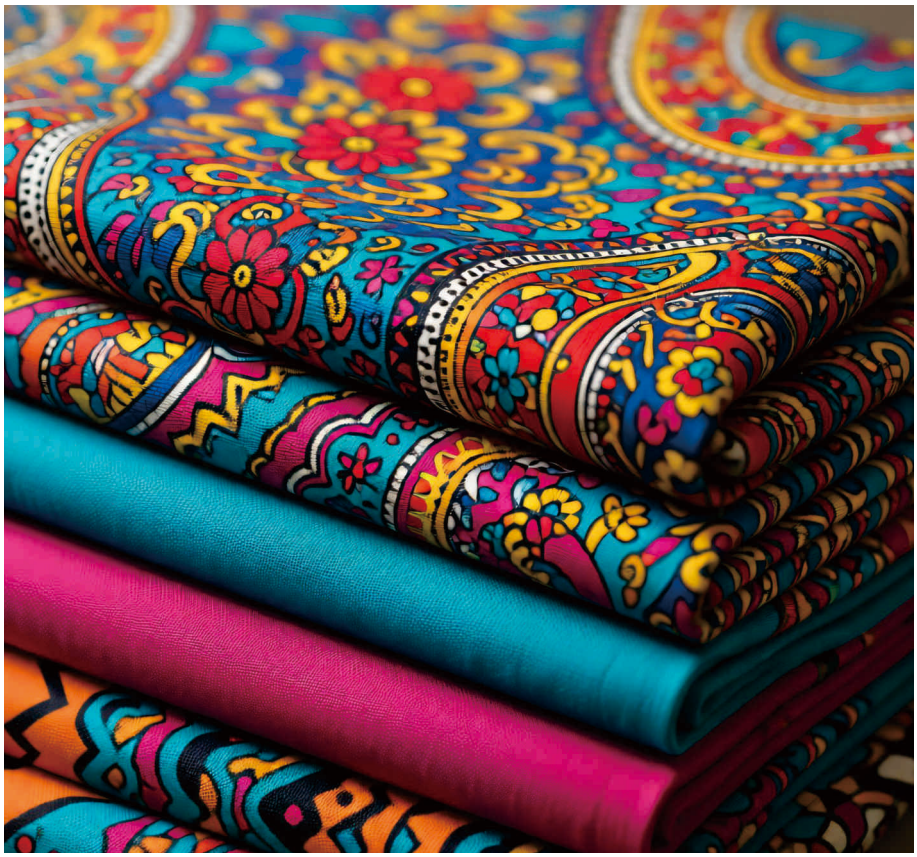
Modular Architecture
Flexible Color-Channel Expansion

- The SP2 features a modular design supporting up to 16 color channels, with flexible configuration from 4 to 16 colors.
- Additional modules can be installed later to expand the color range. Each module adds 2,000 mm to the machine length, without requiring replacement of the entire machine.
- This supports evolving customer requirements and enables upgrades from small-batch to high-volume, multicolor production.

Highly Integrated Process Configuration
Unified Online Production

- Optional online sizing and multi-process mesh-belt configurations integrate sizing, printing and drying into one production line, eliminating separate sizing steps, reducing finished-fabric handling and improving production efficiency.
- The dual-purpose fabric feeding rack supports both knitted and woven fabrics without replacing the entire feeding mechanism when switching fabric types.







Technical Data

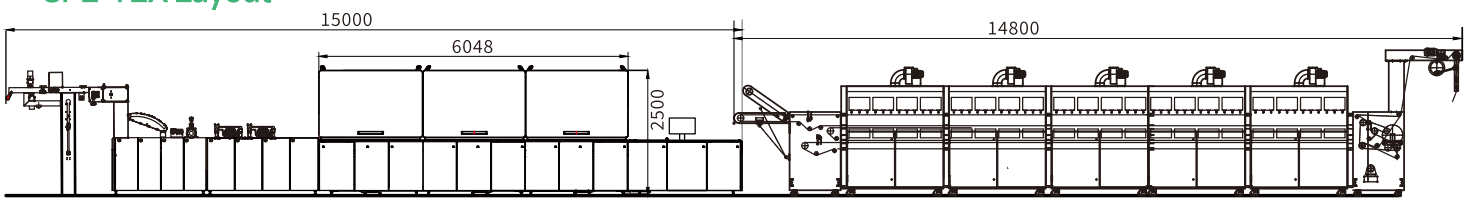
Model	SP2	SP2 L
Max printing width	1940 mm	2800 mm
Max printing speed	100 m/min	
Colors channel	4~16 Colors	
Resolution	600~1200 dpi*	
Height of platform	1120 ± 50 mm	
Air	0.6 Mpa	
Power supply	Three phase 5 wires 380V	
Power	65 KW	95 KW
Dimension (L×W×H)	15000×3300×2500 mm	15000×4100×2500 mm
Weight	23000 kg	28000 kg

*Resolution varies depending on printhead model and production parameters.

*Dimensions and weight are calculated based on the 12-colour configuration. Specifications change with the number of print modules. Installed power is 65 kW, excluding the drying oven, calculated for the 12-colour model.

Note: Drying oven selection depends on ink technology and production output. Please consult DPI technical staff for details. Specifications subject to change without prior notice.

SP2-TEX Layout



Note: All dimensions in millimetres.
*Dimensions are for reference only; actual size per product.

DPI is a global technology enterprise, specializes in the R&D, manufacturing, sales, and service of high-speed industrial digital inkjet printers. DPI delivers innovative digital printing solutions to diverse industries such as ceramics, building materials, textiles, and packaging. For more information, please visit www.dpi-t.com