

PHOENIX 1800

Woven Fabric Digital Printer

Digital printing for home and vehicle textile, AD & SIGN and outdoor banner



1 / Constant Traction Stepping System (TWINJET's Patented Technology)

When a constant traction stepping system is used, the fabric can be in the floating state with good flatness when being printed. The traction is adjustable, which substantially broadens the fabric adaptability.

2 / Post-Printing Online Drying System (TWINJET's Patented Technology)

The fabric will enter into the drying process immediately after printing procedure to avoid the sticky dirt generated on the fabric when entering into a twitch roller. The drying temperature and wind force could be adjusted to ensure the adaptability of a fabric which is thin or thick.

3 / Real-Time Waste Ink Collecting System

The excessive ink droplets passing through the fabric upon printing would be uniformly collected by the waste ink tank and it is only required to clean the waste ink tank regularly to avoid drainage of waste water. The system can easily handle ultra-thin fabrics.

4 / Real-Time Drying & Heating System

Its two-sided-heating and fully-closed design can meet the requirements of sublimation with full color development, and when it is also used as the drying unit, the energy efficiency can be improved and the electricity consumption can be reduced.

5 / Professional Printing RIP Software

It supports the hyperfine screening technology conducting multi-channels color separating with a unique function of multiple duplicating, which can fully respond to the requirements of various patterns by the digital printing.

Specifications:

Printing technology	Model	PHOENIX 1800	
	Nozzle	The Fifth Generation Micro Piezo Inkjet Printhead (DX5)	
	Quantity of nozzles	180 Nozzles X 8 rows X 2 units (2880 Nozzles)	
	Printing accuracy (maximum)	1440dpi	
	Ink dot size	Minimum 3.5 pl, maximum 21 pl	
	Color	Dual four colors	
	Printing accuracy / speed	360X1080dpi	55m ² /hr
Printing media		720X720dpi	33m ² /hr
		720X1080dpi	26m ² /hr
	Printing width	1800mm	
	Width	The maximum material width is 1880 mm	
	Thickness	Depending on the material requirements	
Ink-supply system	Type	Cotton, linen, silk, wool, polyester and blends, polyamide, acrylic, artificial cotton etc.	
	Maximum reel diameter	250mm	
	Maximum material weight	80kg	
	Ink	Reactive ink, Disperse ink, Acid ink	
Heating system	Ink-supply mode	Continuous ink supply system (CISS)	
	Ink cartridge capacity	2000ml	
	Ink color	C, M, Y, K	
Interface and power		Sublimation Heater	
	Interface	High-speed USB 2.0 interface	
	Power source	Single phase 230V±10% 50/60Hz (110V is optional)	
System software	Power	Printer: 1.0KW; Sublimation Heater: 6.0KW; Smoke filter: 0.3KW	
	RIP software	PHOTOPRINT (Textile Version), ONYX (Textile Version)	
	Control software	PrintManager	
Operating environment	Control system	Windows XP / Windows 7 / Windows 8	
	Temperature	15℃ ~ 30℃	
Machine size	Humidity	40% ~ 80%	
	Printer: 2970mm (L)*1230mm (W)*1440mm (H);		
Machine net weight	Printer: 240kg; Sublimation Heater: 295kg; Smoke filter: 40kg;		

★ TWINJET Special Textile Printing inks:

The high quality active, disperse, acid ink developed for TWINJET digital textile printer is made from imported high-performance dyes free from heavy metals and other toxic substances but with pure color tones and high dye rate, and their fastness indicators are qualified in the tests conducted by professional agencies (the test reports from national authorities are available).

Convenience and Efficiency of Non-Belt Type

Constant traction stepping system is the highlight of the entire system. The broadening of fabric adaptability improves the integration level of program and reduces customer's investment costs and risks. Such expensive conductive-type inkjet printing machine is replaced by PHOENIX 1800, resulting in very good effect. and make many fabrics avoid from the complex operation of traditional Self-adhesive Belt Transmission Printer. PHOENIX 1800 will not produce wastewater such as that is caused by conduction belt cleaning on traditional Self-adhesive Belt Transmission Printer, with smaller footprint and lower energy consumption. It truly embodies the characteristics of high efficiency, low energy consumption and modest prices of digital printing, which presents high investment value for customers engaged in fabric printing, exhibition, home decoration and advertising banners etc.

Perfect Combination of Quality and Speed

EPSON DX5 printhead is used, with the output resolution of up to 1440dpi and the printing speed of up to 55 m²/h, supporting variable-sized droplet technology.

Solid and Stable Body Structure Design

The bottom beam with fully wrapped slurry and steel back wall allows the printer to obtain solid horizontal support. The finished main aluminum alloy beam with high strength ensures the durability of the equipment and super-high printing resolution and the equipped Japanese THK linear mute guide rails, assures stable and high-speed movement of the printhead and in low noise level.

Meticulous Caring

A high-power DC servo motor cooperating with high-resolution raster and fully-closed positioning ensures the precision of the droplet printing position. A safe and reliable passive lifting cleaning mechanism uses a peristaltic ink pump to greatly extend the service life of the printhead. The distance between the printhead to the fabric could be manually adjusted depending on the fabric and the adjustable distance is 0-5mm.



For more information,
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