

Xennia Emerald

High throughput continuous digital textile printer

The Xennia Emerald high throughput digital inkjet printer is designed for printing wide web fabrics with unrivalled productivity and reliability, providing a compelling solution for rapid turnaround digital textile decoration and finishing.

Ideal for high throughput continuous textile printing

The Xennia Emerald can accommodate up to eight colours and is available with three different web widths, giving ultimate flexibility and performance. The Xennia Emerald prints continuously while the substrate is moving, leading to a diagonal printing pattern where the print carriages pass over each area of the substrate at least twice. The 600 m²/hr (6460 ft²/hr) maximum print speed gives rapid coverage of any substrate, making the Xennia Emerald the ideal high throughput production tool for a wide range of textile and other wide web printing and finishing applications.

Integrated printing system with flexible options

The Xennia Emerald continuous printer is supplied as a self-contained system comprising blanket motion system (1.8 m, 2.4 m and 3.4 m variants), scanning printhead carriages, substrate wind and unwind stations, in-line digital drying unit, re-circulating fluid control systems, control electronics, automated printhead maintenance station, operating PC and software. Optional UV curing stations are available for use with UV cure inks.

Accurate substrate handling for high quality printing

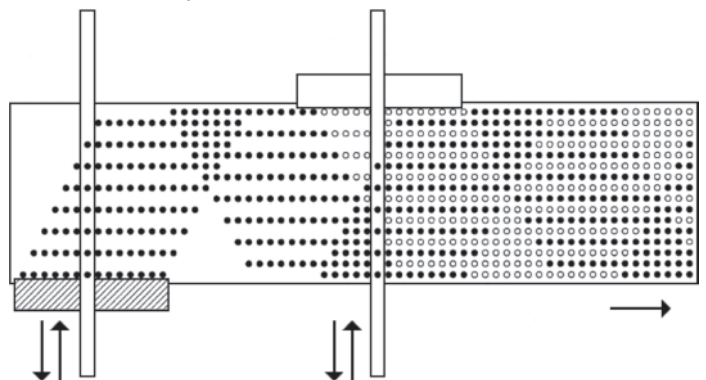
The Xennia Emerald uses a high accuracy adhesive blanket system for substrate control, including a heated entry roller for temporary adhesion of the substrate and automatic diameter compensation of the unwind fabric roll. The system utilises a constant velocity servo motor for blanket motion and a highly accurate linear motor for print carriage motion, giving the ultimate in precise substrate handling and print positioning.

Intuitive rapid turnaround printing

Powerful integrated XenJet print software allows users to prepare print jobs and print images quickly and simply using an intuitive interface. Variable data and images can be supported to allow full colour real-time customisation down to a batch size of one. There are several different modes which can be utilised on the printer to generate prints with very high quality and with very high throughput.

Maximum performance with eco-solvent and UV cure inks

The Xennia Emerald is recommended for use with Xennia's high performance XenInx Moissanite UV cure inks and XenInx Alexandrite eco-solvent inks. Using either Moissanite or Alexandrite, the printer delivers excellent print quality with good adhesion and durability on a wide range of textile, signage and graphics substrates. These inks offer high levels of colour performance and wash, crock and light fastness. Xennia also offers the facility to develop customised inks to meet specific application or substrate requirements.



- 💧 Textiles
- 💧 Banners & soft signage
- 💧 Digital finishing



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Specifications

Ink type	UV, solvent, including advanced pigmented inks XenInx Moissanite UV cure CMYKW ink recommended XenInx Alexandrite eco-solvent CMYK ink recommended
Printheads	Industrial piezo recirculating
Print width	Up to 1800 mm (1.8 m version) Up to 2200 mm (2.2 m version) Up to 3400 mm (3.4 m version)
Printer throughput	Up to 600 m ² /hr (6460 ft ² /hr)
Print resolution	600 dpi or 1200 dpi /8 level greyscale with 4 colours (dependant on configuration) 300 dpi or 600 dpi /8 level greyscale with 8 colours (dependant on configuration)
Print swathe width	Up to 300 mm (dependant on configuration)
Ink coverage	Approx. 6 g/m ² at 300 dpi (24 g/m ² at 1200 dpi)
Motion system resolution	1 µm (Y)
Motion system repeatability	<10 µm (XY)
X positioning	Constant velocity servo motors
Y positioning	High accuracy linear motors
Colour capability	Up to eight colours
Fluid control	Recirculating with temperature control
Printhead maintenance	Automated maintenance station
Software	XenJet print software with integrated user interface
Fabric fixing	Continuous, with variable fixant strengths
Fabric feed	Automated A-frame with diameter compensation
Dimensions (WxDxH)	6.0 m x 10.0 m x 2.0 m (236 in x 394 in x 79 in)
Power supply	415 VAC, 50 Hz three phase (or 120 VAC, 60 Hz single phase)
Optional accessories	Integrated scanning UV lamp stations Variable data capability

Subject to technical modification without notice



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