

Xennia Osiris

Ultra high throughput digital textile printer

The Xennia Osiris ultra high throughput digital textile printer is designed for printing of fashion and furnishing fabrics with unrivalled productivity, reliability and cost per print, providing an excellent solution for low cost digital textile printing at short and long runs.

Ideal for high productivity, low cost digital textile printing

The Xennia Osiris uses up to 8 colours (process or spot colours), and can accommodate up to 12 by request, with a print width of up to 1.85 m and print quality superior to that of rotary screen printing. Production speeds of up to 30 m/min at full coverage (equivalent to an areal coverage of up to 3,330 m²/hr or 35,845 ft²/hr) are possible. This makes the Xennia Osiris the ultimate high speed, low cost digital textile printer for fashion and furnishing fabrics at run lengths of as little as 10 metres up to more than 2,000 metres with lower production costs than analogue rotary screen printing. High ink coverage allows decoration of very heavy fabrics with intense colours.

Integrated high speed printing system

The Xennia Osiris ultra-high speed digital textile printer is supplied as a self-contained system comprising blanket motion system, highly robust fixed array industrial continuous inkjet printhead carriage, rapid change fluid controllers, substrate wind and unwind stations, in-line digital drying unit, control electronics, operating PC and software.

Accurate substrate handling for high quality printing

The Xennia Osiris uses an adhesive blanket system for substrate control, including an entry roller with optional heating for temporary adhesion of the substrate. The system utilises a high accuracy, high speed servo motor for blanket motion, giving the ultimate in substrate handling and print quality. The system also includes automated plaiting or winding in readiness for steaming or washing.

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. New images can be loaded rapidly allowing fast introduction of new designs, and images can be varied on the fly to allow mass customisation. Selectable print modes allow different combinations of colours, ink coverage, throughput and quality to be achieved. Fast ink changeover in a matter of minutes enables easy spot colour changes.

Convenient sample printing

An optional sampling printer is available, designed to allow rapid sampling at the design centre using the same printing technology as the production printer, which may be on the other side of the world. The sample printer can produce four 6 m long samples per hour at up to 1.6 m width with up to 12 colours.

Maximum performance with XenInx digital textile printing inks

The Xennia Osiris is recommended for use with Xennia's high performance XenInx textile ink range, including reactive, disperse and acid dye inks. Using XenInx inks, the printer delivers excellent print quality on a wide range of textile 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.

- 💧 Low cost digital textile printing
- 💧 Fashion apparel fabrics
- 💧 Soft furnishings



Xennia Osiris

Specifications

| | |
|-----------------------------|---|
| Ink type | Aqueous textile printing inks XenInx reactive, acid and disperse inks recommended |
| Printheads | Industrial continuous inkjet (CIJ) |
| Print width | Up to 1,600 mm (1.6 m version) Up to 1,850 mm (1.85 m version) |
| Printer throughput | Up to 30 m/min (98 ft/min) (up to 2,880 m ² /hr or 30,985 ft ² /hr) (1.6 m version) Up to 30 m/min (98 ft/min) (up to 3,330 m ² /hr or 35,845 ft ² /hr) (1.85 m version) |
| Print quality | Rotary screen equivalent or better |
| Ink coverage | Light fabrics for fashion printing: 24-33 g/m ² Heavy woven and tricot fabrics: 33-65 g/m ² Speciality fabrics: up to 264 g/m ² |
| Colour capability | Up to eight colours (process or spot colours, up to 12 colours by request) |
| Fluid control | On demand with degas and temperature control, rapid changeover |
| Software | Print software with integrated user interface |
| Fabric fixing | Continuous, with variable fixant strengths |
| Dimensions (WxDxH) | 20.0 m x 7.6 m x 3.8 m (788 in x 299 in x 150 in) |
| Power supply | 415 VAC, 50 Hz three phase (or 120 VAC, 60 Hz single phase) Peak power consumption 200 kWh (during start-up) Peak power consumption 130 kWh (during running) |
| Optional accessories | Sampling printer Additional colour bars (up to 12 colours) |

Subject to technical modification without notice



Xennia Technology Ltd

Monroe House • Works Road • Letchworth • Hertfordshire SG6 1LN • UK
telephone: +44 (0) 1462 705220 • facsimile: +44 (0) 1462 705221 • email: enquiries@xennia.com

www.xennia.com

 **TENCATE**

Xennia is part of Royal Ten Cate

www.tencate.com