



**PRINTER  
EVOLUTION**

GRAND BY DESIGN

**Robust.  
Versatile.  
Turn-key.**

THE DAWN OF A NEW ERA.



## The Eos Series

Industrial built textile printers with  
an on-board calender for high quality, high production printing.



## The Eos Series

With its industrial build and complete print-to-sublimate capabilities, this is a significant product for high capacity soft signage printing.

### Everything You Need To Succeed

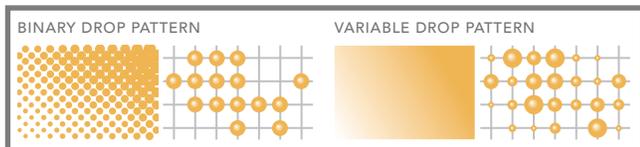
PrinterEvolution continues to drive innovation. With the Eos100 DS and Eos126 DS, print shops have a fast, high-quality, industrial textile printer with an on-board sublimation unit.

#### Ink

- Achieve a brilliant color gamut with super rich blacks, a heavy pigment load and excellent greyscale.
- The vibrant, environmentally friendly, water-based inks pass all OEKO-TEX® Standard 100 certifications. They are produced in an ISO 9001 facility with strict quality control all at a very competitive cost per liter.
- 2.5 liter bulk system for high energy disperse inks.

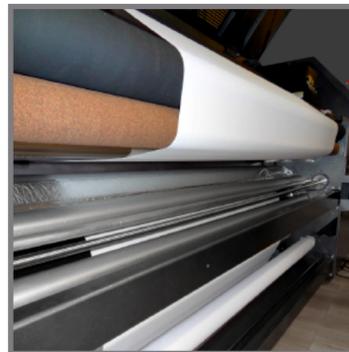
#### Superior quality and low cost of operation

- Eos Series printers utilize Ricoh variable drop greyscale heads that produce drops of varying colors and sizes (7 - 21 pL) within a single image file, marrying the best combination of the image quality that comes with small drop sizes and the productivity associated with large drop printing.
- Using only 4 colors and the precision of the Ricoh heads, the Eos places a precise dot that provides fine, detailed text and superior image quality, especially in gradients and midtones.
- Competitors using binary drops (fixed drop sizes) can achieve similar color only with 6 or more colors, such as CMYK + Lc, Lm.



#### Media options

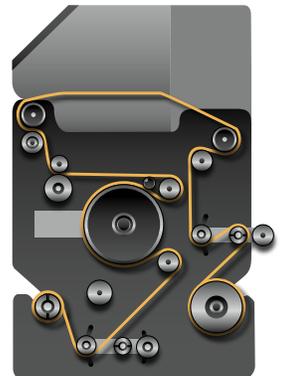
- Unlike many competitive products, the Eos Series can print on standard digital textile fabrics as well as specialty materials, such as open weave and stretch.
- Our system uses a uniquely designed trough system fitted with a sponge and ink pad that absorbs any ink that passes through the fabric on flag material, mesh and other open weave fabrics without marking the backside with "blow-by" ink.



- For stretchable fabrics like Lycra, spandex and other sports textiles, the Eos uses a cork-covered cylinder to spread and hold the fabric in place, maintaining perfect, precise print quality.

#### Media Feed

- The engineering of the media handling system includes four drive motors, two precision stepping motors and synchronized dancing rollers that automatically fine tune the tension during the media feeding process to ensure precise movement. This is far superior to the pinch rollers used in some competitive systems.
- The cork roller can be adjusted to apply additional tension to fabrics, creating uniformity on all materials for precise print and sublimation.





## Presenting A New Solution To A Growing Market Opportunity

Digital textile printing has been quickly taking over the exhibit, POP and retail market segments. Many print providers are well past the point of entering this market and into heavy, 24-hour per day production. With the Eos Series, you can achieve these demands with high speeds, beautiful color and industrial reliability.

### True on-board sublimation

- Can heat the front or the back of print media.
- Eos printers use an advanced on-board sublimation unit, which not only dramatically reduces the equipment footprint requirements but also delivers a finished product right off the printer.
- Many competitors utilize a "blackbox" or "toaster" heater in which the media passes by a heating system that is intended to fix inks into the fabric. Prints from this type of system are not yet permanently fixed and will still need to be sublimated with a separate fixation calender to avoid bleeding and fading.
- Eos prints are actually sublimated into the textile with a true calender that utilizes even, consistent heat and pressure. Directly from the printer, users can immerse the finished print in water with no ink bleed or loss.

### Complete system, smaller footprint

- Eos printers are designed with built-in fume extraction units to filter the fumes generated during sublimation. The heated core that sublimates the ink into the fabric is encased in an insulated cylinder that is vented directly into the fume extraction unit so that no fumes escape during the sublimation process.
- The unit utilizes Hydrophobic HEPA filters with long life and low replacement cost. There is a filter change/ system fail signal to make sure the unit is always functioning at peak performance.
- This unit functions with a very small footprint and low electrical requirements. This is especially cost effective when compared to systems utilizing a separate sublimation calender which requires a larger footprint and hood extraction built into the roofing system.
- An optional in-line cutting system uses six adjustable cold-knife blades to cut the media after sublimation. This allows the operator to print several jobs at once and separate them into batches as they come off the printer, decreasing finishing time and increasing productivity.



SPECIFICATIONS

**Eos100 DS**

**Eos126 DS**

	Ricoh Gen-4	Ricoh Gen-4	Ricoh Gen-4	Ricoh Gen-4	Ricoh Gen-5
PRINTHEAD TECHNOLOGY					
PRINTHEAD COUNT	8	12	8	12	4 or 6*
PRODUCTION SPEED – SQ FT	720	1100	760	1170	1260
PRODUCTION SPEED – SQ M	67	102	71	109	117
WEIGHT	2866 lbs (1300 kg)		3306 lbs (1500 kg)		
WIDTH – IN	100		126		
WIDTH – M	2.5		3.3		
DIMENSIONS – IN ( W XDXH)	180 x 47 x 63		208 x 47 x 63		
DIMENSIONS – CM ( W XDXH)	460 x 120 x 160		530 x 120 x 160		
ELECTRICAL REQUIREMENTS					
Printer	3-Phase 380~415V star connection with neutral wire (3x 30A) 50Hz				
Air Purifier	VAC, 50/60Hz 220V±10% 25A				
AMBIENT TEMPERATURE	68°F – 77°F (20°C – 25°C)				
RELATIVE HUMIDITY	40% – 80% (non-condensing)				
MEDIA HANDLED	Roll				
INKS					
Colors	4 Colors: CMYK*				
Type	Water-Based High Energy Disperse				
Capacity	2.5 Liter Bulk Ink Feed				
RESOLUTION	1200 dpi				

\* Gen-5 model can be upgraded with two extra channels for TCT (Transparent Color Technology)

**Redefining Service And Support**

Your business is in real time, now your service and support can be too. PrinterEvolution’s modern service and support model is highlighted by:

- Every Eos comes with an Apple iPad loaded with an “intelligent” service package. Stream issues directly to us via the camera on the iPad. Our technicians can then remotely diagnose and help your staff solve issues - saving you time and expense.
- Our service package also includes a customized login for your staff to use for training, troubleshooting and diagnostic photos and videos. It will push preventative maintenance queues and it will continue to grow with Eos community experiences.



PrinterEvolution is a Colorado-based grand format printer manufacturer who is pioneering innovative products in digital textile printing. The company was established by industry veterans who wanted to resolve market voids that materialized in all areas, including customer service, technical support, price-to-performance ratios and product innovation. PrinterEvolution strives to meet customer needs with high standards of service and value-based products.



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