

EPSON®

# Monna Lisa™ 8000

Direct-to-Fabric Printing





# The Epson Technology Advantage

## Advanced Printhead Technology

Engineered for reliability, our innovative PrecisionCore® printheads deliver exceptional print quality with speed, consistency and precision.



## Breakthrough Image Quality

Epson Precision Dot Technology and exclusive Micro Weave®, Multi-layer Halftoning and Lookup Table functions work together to reduce banding, graininess and degradation.

## Stable Operation

Designed with user-friendly features, including auto nozzle cleaning by fabric wiper, Nozzle Verification Technology, fluff blower, ink mist extraction system and more to help keep production running smoothly.

## Versatile Epson GENESTA Inks

Create brilliant, high-quality prints on a wide variety of fabrics with these vibrant inks. Each ink pack is hot-swappable to allow for continuous printing. Plus, these inks are ECO PASSPORT certified to meet globally recognized standards for textile printing.

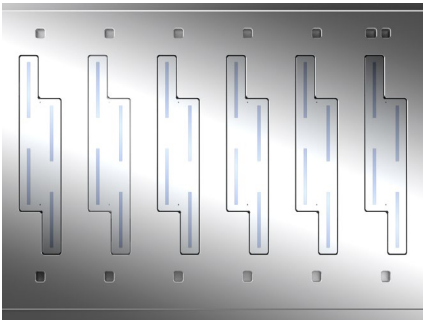
# The next-generation digital textile printer with the features you’ve been waiting for

The Monna Lisa 8000 (ML-8000) packs the power and performance of the latest world-class Epson inkjet printing and manufacturing technologies into a single package. Offering unprecedented quality and usability, it is a next-generation digital textile printer that will take your production capabilities to a new level.

## High Productivity

### PrecisionCore Micro TFP® Printheads

The ML-8000 is equipped with eight newly developed 4.7" high-density PrecisionCore Micro TFP printheads that achieve higher productivity with a maximum ink droplet size 1.4 times larger than our previous-generation printheads. This, together with exceptionally high dot placement accuracy and advanced image processing technology, enables high-quality, high-throughput printing at up to 1,744 ft²/hr¹.

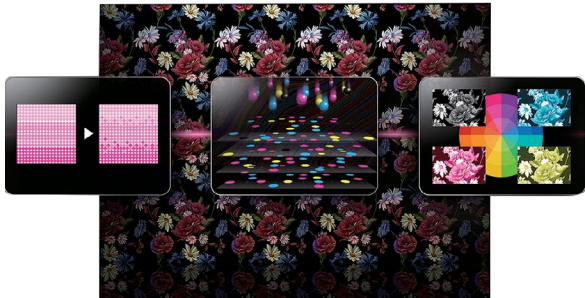


Print Speed (ft²/hr)¹	
600 dpi x 600 dpi, 2-pass	1,744
900 dpi x 600 dpi, 3-pass	1,163

## High Image Quality

### Epson Precision Dot Technology

Epson Precision Dot Technology, refined over many years of inkjet printer development, drives the ML-8000's exceptional image quality. In addition, our exclusive Micro Weave, Multi-Layer Halftoning, and Lookup Table (LUT) technologies work together to reduce banding, graininess and image quality degradation caused by dot placement errors.

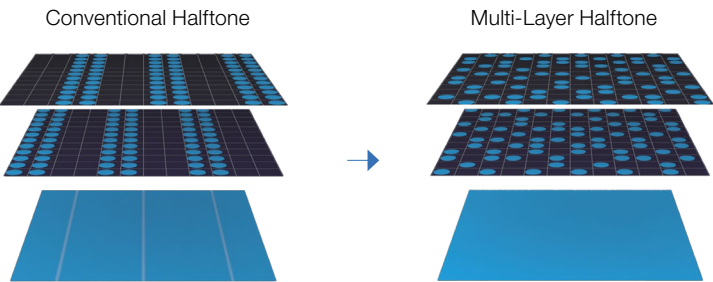


### Dynamic Alignment Stabilizer

Dynamic Alignment Stabilizer (DAS) technology ensures stable print quality by controlling waveforms on each printhead chip to achieve higher dot placement accuracy and more uniform dot density at each pass.

### Multi-Layer Halftoning for Breakthrough Image Quality

The ML-8000 uses advanced Multi-Layer Halftoning technology (MLHT) to achieve higher stability and image quality than ever before. By randomizing the halftone dot pattern printed on each layer, MLHT reduces image degradation caused by dot misalignment.



### Symmetrical Color Alignment

Symmetrical color alignment maintains consistent color overlap order during high-speed bidirectional printing for uniform image quality.

# Stable Operation

## Advanced Cleaning Mechanisms

To help reduce the chance of nozzle clogging, a fluff blower system removes fluff from the fabric surface before it enters the printing area. In addition, a powerful, dual-fan, ink mist extraction system helps prevent ink mist from adhering to the surface of the nozzles.

## Nozzle Verification Technology

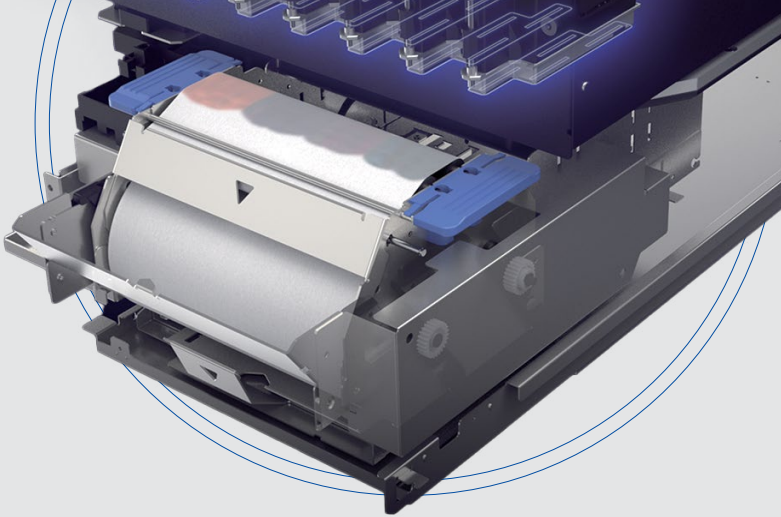
This advanced technology detects missing dots that indicate nozzle clogging, and adjusts ink delivery to maintain image quality and reduce printing errors.

## Accurate Belt Position Control

High image quality also requires precise fabric feeding. The ML-8000 achieves this with Accurate Belt Position Control (ABPC) technology that automatically detects belt feeding distance to ensure highly accurate fabric feeding.

## Dual-Sensor System

Dual head-strike sensors help detect any folds or wrinkles that may cause the fabric to come into direct contact with the printheads. If folds or wrinkles are detected, the sensors stop the carriage to avert a potential head strike.



## Auto Nozzle Cleaning

An easy-to-replace roll wipes the printhead nozzles clean to help prevent nozzle clogging.

# Easy Operation

## 9" Touchscreen Panel

In addition to displaying current printer status and operating instructions, the convenient touchscreen panel shows information about ink and fabric, temperature and humidity, platen gap, and regular maintenance procedures.



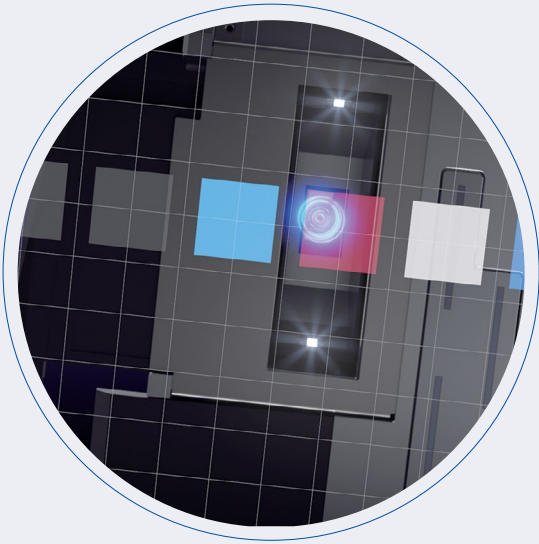
# Minimal Downtime

## Automatic Calibration

To minimize downtime and get you back up and running quickly after fabric or printhead replacement, a built-in RGB camera automatically analyzes reference patterns and recalibrates printer settings to prevent dot misalignment, banding and color shift.

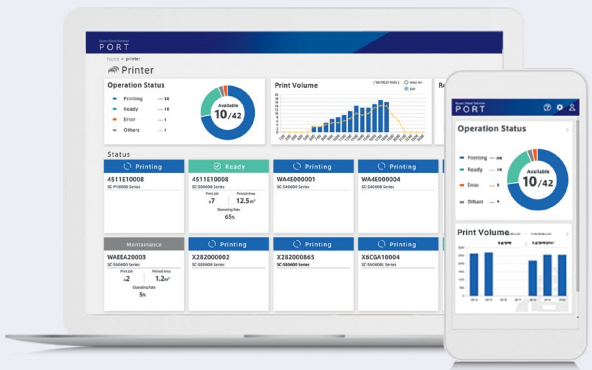
## High-Accuracy Head Alignment Technology

High-precision positioning pins and holes on the printhead and carriage enable quick and easy printhead replacement. Thanks to automatic calibration by the built-in RGB camera, printhead replacement and adjustments can be completed easily.



## Epson Cloud Solution PORT<sup>®2</sup>

This remote monitoring system provides live production monitoring of your printer fleet, including production rates and printer utilization.



# High-Capacity Inks

## Hot-Swappable for Uninterrupted Production

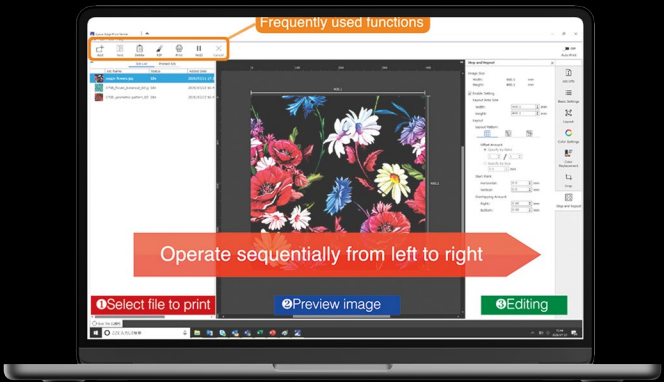
Dual 10 L<sup>3</sup> vacuum-packed degassed ink packs can be loaded for each color, and you don't need to worry about running out of ink halfway through a job because empty ink packs can be replaced while printing is in progress.



# Software for Digital Textile Printing

## Epson Edge<sup>®</sup> Print Pro X1

Epson Edge Print Pro X1 RIP software was specifically developed to maximize the performance of PrecisionCore Micro TFP printheads and GENESTA Inks. It features an intuitive interface for easy, three-step, left-to-right operation, as well as step-and-repeat, hot folders, color replacement for matching spot colors, and other convenient features. In addition, the ML-8000 is supported by other major textile RIP software, giving you the flexibility to use the RIP solution of your choice.



# Epson Textile Solutions Centers

## Full-Service Support

Experts at Epson Textile Solution Centers in Italy and Japan are ready to assist and advise you when the need arises. From equipment demos and sample production, to advice on pre- and post-processing techniques, we provide full-service support for every stage of the textile printing process.



### Printer

**Printing Technology** Eight PrecisionCore Micro TFP drop-on-demand inkjet printheads with Nozzle Verification Technology  
**Ink Type** GENESTA (Acid, Reactive, Disperse, Pigment); 8-color  
**Maximum Resolution** 1200 dpi x 1200 dpi (Pigment), 1200 dpi x 600 dpi (Reactive, Acid, Disperse)  
**Droplet Technology** Variable Droplet Technology  
**Maximum Print Width** Up to 72.8" (1,850 mm)  
**Maximum Fabric Thickness** 0.19" (5.0 mm)

### Print Speed

**Print Speed (ft<sup>2</sup>/hr)<sup>1</sup>**  
**Pigment/Reactive**  
 3,358 (300 dpi x 600 dpi, 1-pass)  
 1,744 (600 dpi x 600 dpi, 2-pass)  
 1,163 (900 dpi x 600 dpi, 3-pass)  
**Acid/Disperse**  
 3,003 (300 dpi x 600 dpi, 1-pass)  
 1,550 (600 dpi x 600 dpi, 2-pass)  
 1,033 (900 dpi x 600 dpi, 3-pass)

### Fabric Handling

**Fabric Handling** Conveyor belt with adhesive  
**Belt Washing** Automatic

### Standard Feeder

**Fabric Roll Diameter** 15.7" (400 mm)  
**Fabric Roll Weight** 220 lb (100 kg)  
**Fabric Roll Core Diameter** 2" or 3"

### Environmental Characteristics

**Temperature**  
 Operating: 68° F to 86° F (20° C to 30° C)  
 Operating (Recommended): 72° F to 82° F (22° C to 28° C)  
**Humidity**  
 Operating: 40% – 60% RH (non-condensing)

### Electrical Specifications

**Voltage**  
 Main Unit: 380 V ~ 415 V, 3 phases + Neutral + Ground  
**Frequency** 50 Hz/60 Hz  
**Rated Current** Main Unit: 20 A  
**Power Consumption (Printing)** Main Unit: 5.5 kW

### Certifications

**Safety**  
 Canada: CAN/CSA-C22.2 No. 301 Industrial Electrical Machinery, CAN/CSA C22.2 No. 0, ICES-003 Class A  
 USA: UL 2011 (Investigation Scheme for Machinery), NFPA 79 (Electrical Standard for Industrial Machinery), FCC Part 15 Subpart B, Class A

### Network

**Transmission Speed**  
 USB 3.0, Ethernet 1000Base-T

### GENESTA Inks

**Acid**  
 Black, Cyan, Magenta, Yellow, Gray, Red, Blue, Cobalt, Orange, Rubine, Fluorescent Pink, Fluorescent Yellow, ACROSS (ink penetration fluid)  
**Reactive**  
 Black, Cyan, Magenta, Yellow, Gray, Red, Blue, Orange, Crimson, ACROSS (ink penetration fluid)  
**Disperse**  
 Black, Cyan, Magenta, Yellow, Gray, Red, Blue, Orange, ACROSS (ink penetration fluid)  
**Pigment**  
 Black, Cyan, Magenta, Yellow, Gray, Red, Green, Orange  
**Ink Capacity (Fill Volume<sup>3</sup>)** 10 liter

### Dimensions/Weight

**Dimensions (W x D x H)**  
**Printer** 146" x 106" x 72"  
 (3,700 mm x 2,690 mm x 1,830 mm)  
**Ink Grid (With 10 L Ink)** 35" x 38" x 31"  
 (880 mm x 960 mm x 790 mm)  
**Weight**  
**Printer** Approx. 4,740 lb (2,150 kg)  
**Ink Rack (Not Including Ink)** Approx. 243 lb (110 kg)

### Ink Eco Features

**OEKO-TEX® ECO PASSPORT Certified**  
**bluesign® Approved** Acid ink only  
**GOTS Approved by ECOCERT** Pigment and Reactive inks only

### Printer Eco Features

RoHS compliant  
 Epson America, Inc. is a SmartWay® Transport Partner<sup>4</sup>



Learn more at  
[www.epson.com/digital-fabric-printer](http://www.epson.com/digital-fabric-printer)

Monna Lisa 8000 Working Area Dimensions (Inches)



Monna Lisa 8000 Working Area Dimensions (Millimeters)



\* This product uses only genuine Epson-brand packs. Other brands of ink packs and ink supplies are not compatible and, even if described as compatible, may not function properly or at all.

ECO PASSPORT by OEKO-TEX is a system by which textile chemical suppliers demonstrate that their product can be used in a sustainable textile production. GENESTA inks are certified by the ECO PASSPORT. This is an international safety standard in the textile industry. It is certified to be safe for adults and children, including babies.

**1** At 600 x 600 dpi, 2-pass, for Reactive/Pigment ink only. Printing width: 59 inches (1,500 mm); printing mode: bidirectional. Printing speeds vary depending on such factors as image printed, firmware version, operating state of PC and print settings. **2** All features of this system require an active Internet connection and the use of a supported browser. **3** Part of the ink from the first cartridges/packs is used for initializing the printer. Ink usage will vary considerably based on images printed, print settings, paper type, frequency of use, temperature and humidity. Variance may be more pronounced when printing infrequently or predominantly with one ink color. Ink is used for printing and printer maintenance, and all colors must be available for printing. For print quality, a variable amount of ink remains after the "replace ink" indicator comes on. **4** SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.



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