SPECIFICATIONS

MODEL NUMBER	ML-8000
PRINT	
Printing Technology	PrecisionCore Inkjet Technology
Number of Print Head	8
Number of Colour	8
Maximum Resolution	1,200 x 1,200 dpi (Pigment), 1,200 x 600 dpi (Reactive, Acid, Disperse)
Gradation Process	Variable-Sized Droplet Technology
Max. Print Width	1,844 mm / 72.5 inch
Max. Print Length	Unlimited
Max. Fabric Width	1,850 mm / 72.8 inch
Max. Fabric Thickness	5.0 mm
PRINT SPEED (SQUARE)[1]	
Max. Print Speed (m²/h) / (sq ft/hr)	290 (300 x 600 dpi, 1 pass)[1] / 3,122 (300 x 600 dpi, 1 pass)[2]
Typical. Print Speed 1 (m²/h) / (sq ft/hr)	155 (600 x 600 dpi, 2 pass)[2] / 1,668 (300 x 600 dpi, 1 pass)[3]
Typical. Print Speed 2 (m²/h) / (sq ft/hr)	104 (900 x 600 dpi, 3 pass)[3] / 1,119 (300 x 600 dpi, 1 pass)[4]
PRINT SPEED (LINEAR)	
Max. Print Speed (lmt/h) / (li ft/hr)	193 (300 x 600 dpi, 1 pass)[1] / 634 (300 x 600 dpi, 1 pass)[2]
Typical. Print Speed 1 (m²/h) / (sq ft/hr)	103 (600 x 600 dpi, 2 pass)[2] / 339 (300 x 600 dpi, 1 pass)[3]
Typical. Print Speed 2 (m²/h) / (sq ft/hr)	69 (900 x 600 dpi, 3 pass)[3] / 227 (300 x 600 dpi, 1 pass)[4]
FABRIC HANDLING	
Fabric Drive	Conveyor belt with thermoplastic adhesive
Belt Washing	Automatic
STANDARD FEEDER	
Fabric Roll Diameter (mm) / (inch)	400 / 15.7
Fabric Roll Weight (Kg) / (lb)	100 / 220
Fabric Roll Core Diameter (inch)	2" or 3"
ENVIRONMENT CHARACTERISTICS	
Temperature (ºC)	Operating: 20 ºC – 30 ºC, Recommended: 22 ºC – 28 ºC
Temperature (ºF)	Operating: 68 ºF – 86 ºF, Recommended: 72 ºF – 82 ºF
Humidity	Operating: 35 – 80% RH (no condensation)
ELECTRICAL (MAIN UNIT)	
Voltage	AC380 – 415V (3 phase + Neutral + Earth), 50/60 Hz ±3%
Rated Current	20A
Power Consumption Operating	12kVA
CERTIFICATIONS	
Safety	Canada: CAN/CSA-C22.2 No.301 Industrial electrical machinery, CAN/CSA C22.2 No.0 Canadian Electrical code, ICES-003 Class A
	U.S.A: UL775 (Graphic Arts Equipment), FCC Part15 Subpart B, Class A
	Mexico: NOM-019-SCFI-1998 *check HS Code
	Brazil: NR12 Safety in Machinery and Equipment Work
	EU, EFTA countries, Turkey: Machinery Directive 2006/42/EC Annexl, IEC/EN 60204-1, EN ISO12100, EN ISO11111-1, EN ISO13849-1, EN 55011, EN 61000-6-2, EN 61000-6-4
	Morocco: Order No.2573-14, Order No.2574-14
	Russia, Belarus, Kazakhstan: ISO 12100, ISO 13849-1, IEC/EN 60204-1, EN ISO 11111-1, EN 55011, EN 61000-6-2, EN 61000-6-4, EN 62311
	Ukraine: ISO 12100, ISO 13849-1, IEC/EN 60204-1, EN ISO 11111-1, EN 55011, EN 61000-6-2, EN 61000-6-4
	Australia, New Zealand: AS CISPR11
	India: IS13252 (Part 1)
	Uzbekistan: Safety and EMC(CE), Factory Audit
	Jordan: Safety and EMC(CE)
	Saudi Arabia: Safety and EMC(CE)
	UAE: Safety and RoHS(CE), Factory Audit
	Sri Lanka: Safety and EMC(CE)
Electromagnetic	Korea: KN11, KN61000-6-2, KN61000-6-4
AIR SUPPLY	
Air Tube Connection	φ8 mm
Air Pressure	0.45 Mpa
WATER SUPPLY	
Water Connection	Connect with a φ15 mm (int.diam) pipe
Water Pressure	Max. 0.8 Mpa (8 Bar)
Water Flow	Min. 50 L/h, Max. 150 L/h
VENTILATION	
Vent Air Tube Connection	φ125 mm
Vent Air Flow	Min.900 m³/h
WATER DRAIN	
Water Drain Connector	Connect with a φ25 mm (int.diam) pipe
WASTE INK DRAIN	
Waste Ink Drain Flashing Area Connector	Connect with a φ12 mm (int.diam) hose
Waste Ink Drain Connector	Connect with a φ12 mm (int.diam) hose
NETWORK	
Transmission Speed	USB 3.0 Ethernet 1000BASE-T

[1] Printing width: 1500mm, Printing mode: bidirectional. Printing speeds vary depending on such factors as image printed, firmware version, operating state of PC and print settings.
[2] At 300 x 300 dpi with 2 halftone layers
[3] At 300 x 300 dpi with 4 halftone layers
[4] At 300 x 300 dpi with 6 halftone layers

WORKING AREA DIMENSIONS
4,440 (W) x 6,280 (L) mm

1,830 mm
2,440 mm
4,780 mm

DIMENSIONS

Printer
3,700 (W) x 2,690 (D) x 1,830 (H) mm
(146 x 106 x 72 in)
Ink rack (with 10L ink)
880 (W) x 960 (D) x 790 (H) mm
(35 x 38 x 31 in)

WEIGHT

Printer
Approx. 2,150 kg (4,740 lb)
Ink rack
Approx. 110 kg (243 lb, not including ink)

GENESTA INK

Acid
Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Cobalt, Orange, Rubine, Fluorescent Pink, Fluorescent Flavine, ACROSS (Ink penetration liquid)
Reactive
Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Orange, Crimson, ACROSS (Ink penetration liquid)
Disperse
Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Orange, ACROSS (Ink penetration liquid)
Pigment
Black, Cyan, Magenta, Yellow, Grey, Red, Green, Orange
Ink capacity
10 litres

Dealer's Stamp

Information correct at time of printing.
Printed January 2021

EPSON
EXCEED YOUR VISION

UNLOCK DIGITAL TEXTILE MARKET WITH HIGH IMAGE QUALITY.

Monna Lisa 8000

World-class quality and reliability with Epson's revolutionary textile printer.

Bringing to the textile industry an unrivaled performance and usability, Epson's ML-8000 is the cutting edge Direct-To-Fabric printer that will bring production efficiency to a whole new level. Achieve superior print quality and high accuracy with Epson's very own precision dot technology and PrecisionCore Micro TFP printheads. Offering unprecedented printing efficiency, the ML-8000 is a next-generation digital textile printer that will ensure maximum satisfaction in production capabilities.

IT'S IN THE DETAILS.

PRECISIONCORE PRINTHEAD

Remarkable Print Quality
World-renowned image quality print with Epson's precision dot technology.

Stable Operation
Advanced cleaning mechanism and nozzle verification technology ensure continuous stable operation.

Minimal Downtime
Round-the-clock remote monitoring system reduces downtime and responds quickly to potential issues.

THE NEXT GENERATION DIGITAL TEXTILE PRINTER WITH THE FEATURES YOU'VE BEEN WAITING FOR.

The Ml-8000 packs the power and performance of the latest world-class Epson inkjet printing and manufacturing technologies into a single package. With the ML-8000, you can have the flexibility to increase your production volume and have the ability to take on more short-run print jobs.

KEY FEATURES & USER BENEFITS

Easy Operation

Dual Hot-Swappable High Capacity Ink Cartridges (10L)

High Print Quality

New PrecisionCore Micro TFP Printheads

Epson Precision Dot Technology

Multi-Layer Halftone Technology

Dynamic Alignment Stabiliser (DAS) Technology

Symmetrical Colour Alignment

Stable Operation

Auto Nozzle Cleaning by Fabric Wiper

Nozzle Verification Technology

Stable Operation

Fluff Blower System

Ink Mist Extraction System

Easy Operation

9-Inch LCD Touch Panel

Epson GENESTA Inks

Acid, Reactive, Disperse and Pigment Ink

Vacuum-Packed Degassed Ink Cartridges

Textile Software

Epson Edge Print Textile

ColorBlend

Minimal Downtime

High-Accuracy Head Alignment Technology (easy head replacement)

Auto Calibration by Built-In RGB Camera

Epson Remote Monitoring System

Stable Operation

Dual Head-Strike Sensors

High Print Quality

Accurate Belt Position Control (ABPC) Technology

HIGH PRODUCTIVITY

### PRECISIONCORE MICRO TFP PRINTHEADS OPTIMISED FOR MAXIMUM PRODUCTIVITY

The ML-8000 is equipped with eight newly developed 4.73-inch high density PrecisionCore Micro TFP printheads that achieve higher productivity with a maximum ink droplet size 1.4 times larger than our existing printheads. This, together with exceptionally high dot placement accuracy and advanced image processing technology, enables high-quality, high-throughput printing of 156 m^2/h at 600 x600 dpi, 2 pass[2].

Print mode

| Print mode	Speed
Maximum Printing Speed (300 x 600 dpi, 1 pass)[1]	290 m^2/h
Typical Printing Speed 1 (600 x 600 dpi, 2 pass)[2]	155 m^2/h
Typical Printing Speed 2 (900 x 600 dpi, 3 pass)[3]	104 m^2/h
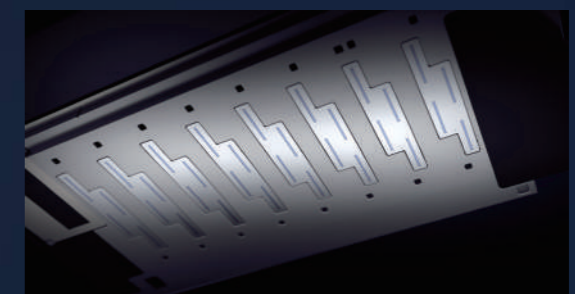
[1] At 300 x 300 dpi with 2 halftone layers.
[2] At 300 x 300 dpi with 4 halftone layers.
[3] At 300 x 300 dpi with 6 halftone layers.

EPSON

Monna Lisa 8000

HIGH IMAGE QUALITY

EPSON PRECISION DOT TECHNOLOGY FOR WORLD-RENOWNED IMAGE QUALITY

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

Microweave   Multi-Layer Halftoning   LUT
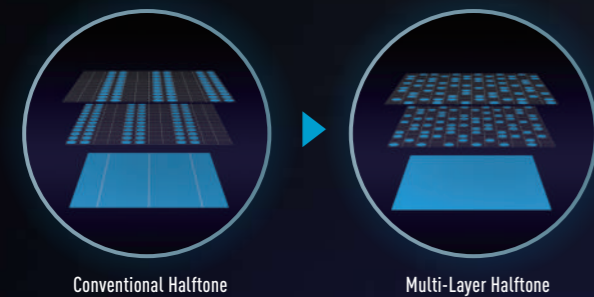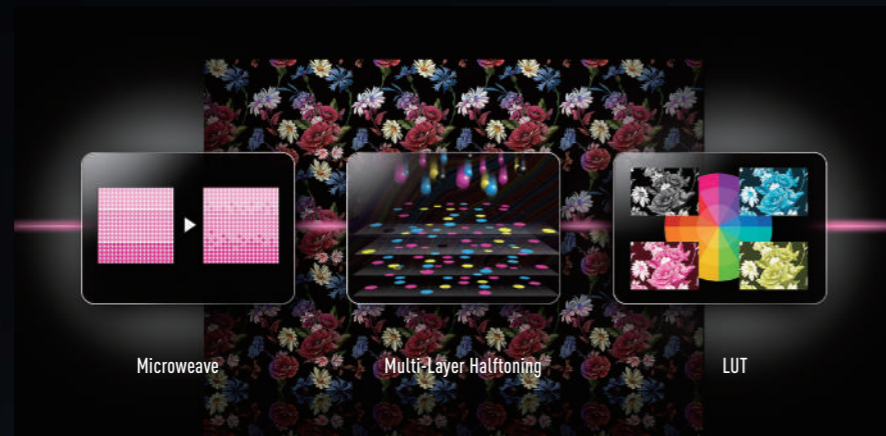
MULTI-LAYER HALFTONING FOR SUPERIOR IMAGE QUALITY

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

Conventional Halftone   Multi-Layer Halftone

ACCURATE BELT POSITION CONTROL (ABPC) TECHNOLOGY FOR HIGH-PRECISION FABRIC FEEDING

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

4th pass
2nd pass
3rd pass
1st pass
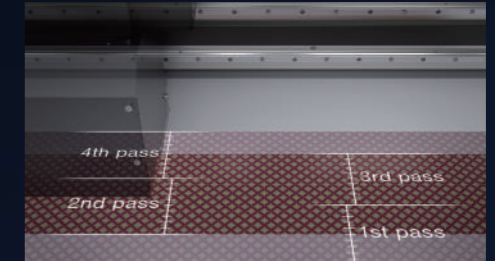
DYNAMIC ALIGNMENT STABILISER (DAS) TECHNOLOGY FOR UNIFORM DOT DENSITY

Dynamic Alignment Stabiliser (DAS) technology ensures stable print quality by controlling waveforms on each printhead chip to achieve higher dot placement accuracy and more uniform dot density on each pass.
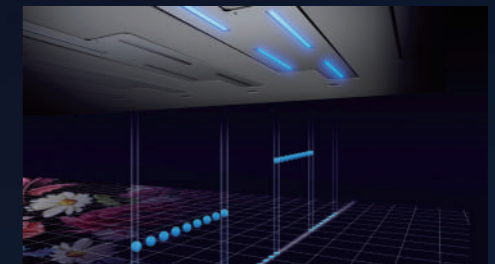
SYMMETRICAL COLOUR ALIGNMENT FOR HIGH BI-DIRECTIONAL PRINTING QUALITY

Symmetrical colour alignment maintains consistent colour overlap order during high-speed bi-directional low-pass printing for uniform image quality.

EPSON
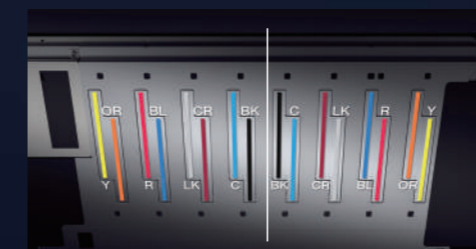
Monna Lisa 8000

STABLE OPERATION

ADVANCED CLEANING MECHANISMS FOR REDUCED NOZZLE CLOGGING

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.
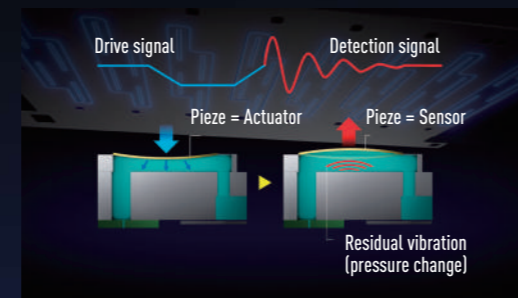
Fluff blower system

Ink mist extraction system

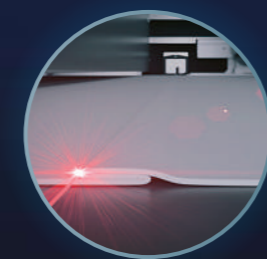### AUTO NOZZLE CLEANING BY FABRIC WIPE REDUCES DAILY MANUAL MAINTENANCE WORK

An easy-to-replace cloth wiper roll continuously wipes the printhead nozzles clean to remove fluff that can cause nozzle clogging.

NOZZLE VERIFICATION TECHNOLOGY FOR REDUCED PRINTING ERRORS

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

Drive signal   Detection signal

Pieze = Actuator   Pieze = Sensor

Residual vibration (pressure change)

### DUAL SENSOR SYSTEM TO PREVENT COSTLY HEAD STRIKES

Dual head-strike sensors 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 immediately stop the carriage to avert a potential head strike.

EASY OPERATION

9-INCH LCD TOUCH PANEL FOR AT-A-GLANCE OPERATING EASE

In addition to displaying current printer status and operating instructions, the convenient touch panel also shows information about ink and fabric, temperature and humidity, platen gap, and regular maintenance procedures.
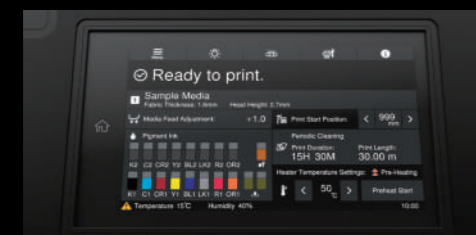
HOT-SWAPPABLE, HIGH-CAPACITY INK SUPPLY FOR UNINTERRUPTED PRODUCTION

The 10-litre vacuum-packed degassed ink cartridges can be loaded for each colour, and you don't need to worry about running out of ink halfway through a job because empty cartridges can be replaced while printing is in progress.

MINIMAL DOWNTIME

AUTOMATIC CALIBRATION BY RGB CAMERA MINIMISES PRINTING INTERRUPTIONS

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

HIGH-ACCURACY HEAD ALIGNMENT TECHNOLOGY FOR EASY PRINTHEAD REPLACEMENT

High-precision positioning pins and holes on the printhead and carriage enable users to replace printheads quickly and easily. Thanks to automatic calibration by the built-in RGB camera, printhead replacement and adjustments can be completed in as little as 30 minutes.

Report

Log   Epson

Support
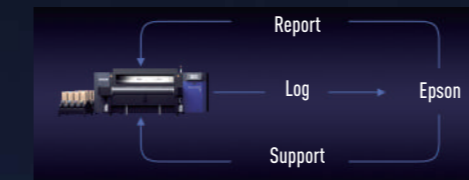
EPSON REMOTE MONITORING SYSTEM FOR REDUCED DOWNTIME

24/7 remote monitoring enables quick response to potential problems, reducing downtime and service calls.

SOFTWARE FOR DIGITAL TEXTILE PRINTING

EPSON EDGE PRINT TEXTILE FOR EASY, HIGH-QUALITY PRINTING

Our original RIP software, Epson Edge Print Textile, was specifically developed to maximise the performance of PrecisionCore Micro TFP printheads and GENESTA inks. It features an intuitive interface for easy, 3-step, left-to-right operation, as well as step and repeat, hot folders, colour replacement for matching spot colours, 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.
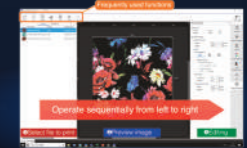
COLORBLEND SOFTWARE FOR COLORWAYS AND INK PENETRATION CONTROL

ColorBlend is preprocessing software for Epson Edge Print Textile. ColorBlend lets you create colour variations (colorways) from channel-separated images (PSD, PSB, etc.), control ink penetration to achieve visual equivalence on both sides of fabric, generate ICC profiles, and perform other preprocessing tasks.

GENESTA INKS

ENVIRONMENTALLY FRIENDLY INKS TO MEET EVERY NEED

Epson GENESTA inks are available in Acid, Reactive, Disperse, and Pigment formulations. They are ECO PASSPORT certificated to meet globally recognised standards for environmentally friendly textile printing. In addition, our Acid ink is bluesign® approved, and our Reactive and Pigment inks are GOTS approved by ECOCERT.

bluesign® APPROVED

OEKO-TEX® ECO PASSPORT

EPSON TEXTILE SOLUTION CENTERS

FULL-SERVICE SUPPORT AT GLOBAL EPSON TEXTILE SOLUTION CENTERS

Experts at Epson Textile Solution Centers in Italy and Japan are ready to assist and advise you whenever 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.