DIRECT-TO-FABRIC DIGITAL TEXTILE PRINTER
MONNA LISA ML-8000U

EPSON

DESIGNED FOR ENTRY-LEVEL AND SCALABLE TEXTILE PRODUCTION.

Elevate Textile Production with Epson ML-8000U's Precision and Efficiency.

The Epson ML-8000U is an entry-level Direct-To-Fabric printer designed for businesses ready to venture into digital textile printing. Powered by Epson's PrecisionCore MicroTFP printheads and Precision Dot technology, it delivers exceptional image quality and colour accuracy. Combining professional performance with user-friendly operation, the ML-8000U offers high efficiency while minimising waste and energy consumption – making it an ideal choice for sustainable, scalable textile production.

ENGINEERED FOR good

GO GENUINE Original Supplies, Quality Prints

PRECISIONCORE PRINTHEAD

OEKO TEX® ECO PASSPORT

bluesign® APPROVED

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.

KEY FEATURES & USER BENEFITS

Easy Operation

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

High Print Quality

New PrecisionCore MicroTFP 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 PRO X

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

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

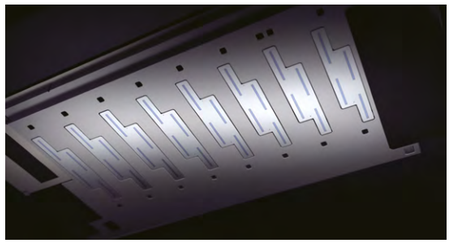
HIGH PRODUCTIVITY

Precision Micro TFP printheads optimised for maximum productvity

The ML-8000U is equipped with eight newly developed 4.73-inch high density PrecisionCore MicroTFP 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 162 m^2/h at 600 x 600 dpi, 2 pass[2].

Print mode

Maximum Printing Speed* (300 x 600 dpi, 1 pass)[1]	312 m^2/h
Typical Printing Speed 1* (600 x 600 dpi, 2 pass)[2]	162 m^2/h
Typical Printing Speed 2* (900 x 600 dpi, 3 pass)[3]	108 m^2/h

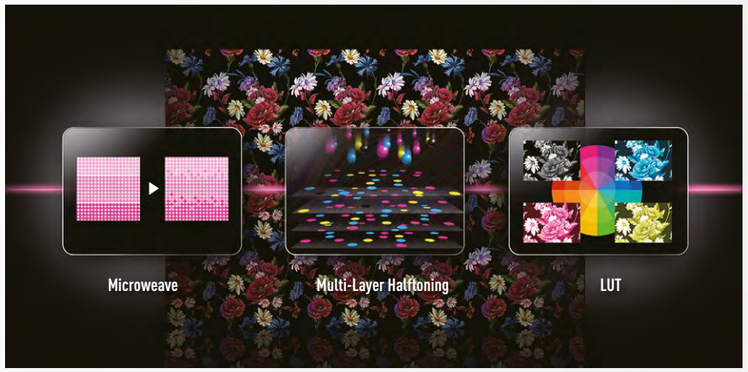


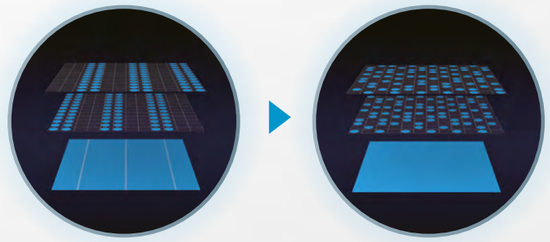
* Print speeds mentioned apply to use with reactive or pigment inks only. Actual performance may vary based on ink type, fabric, and print settings.
1 At 300 x 300 dpi with 2 halftone layers.
2 At 300 x 300 dpi with 4 halftone layers.
3 At 300 x 300 dpi with 6 halftone layers.

HIGH QUALITY IMAGE

Epson Precision Dot Technology for world-renowned image quality

Epson Precision Dot Technology, refined over many years of inkjet printer development, underlines the ML-8000U'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.



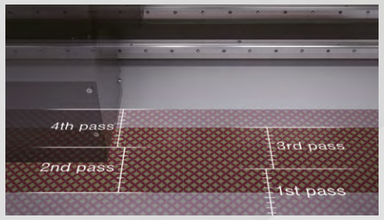


Multi-layer Halftone for superior image quality

The ML-8000U 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.

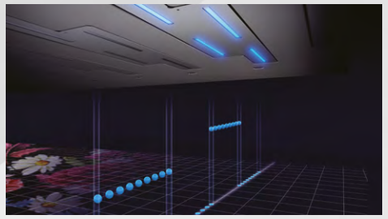
Accurate Belt Position Control (ABPC) Technology for high-precision fabric feeding

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



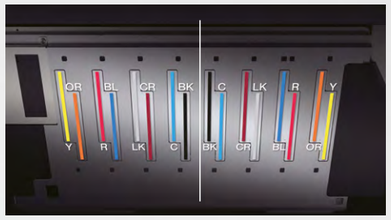
Dynamic Alignment Stabiliser (DAS) Technology for uniform dot density

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

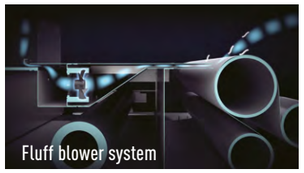
Symmetrical colour alignment maintains consistent colour overlap order during high-speed bi-directional low-pass printing for uniform image quality.

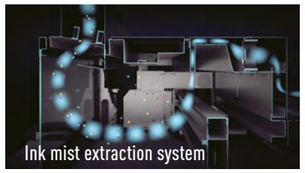


STABLE OPERATION

Advanced cleaning mechanism for reduced nozzle clogging

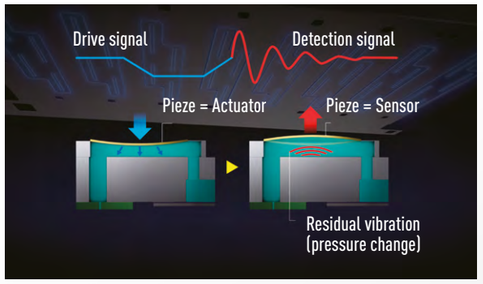
To help reduce the chance of nozzle clogging, a fluff blower system removes fluff from the fabric surface before it enters the printing area. In addition, a powerful, dual-fan, ink mist extraction system helps prevent ink mist from adhering to the surface of the nozzles.


Fluff blower system


Ink mist extraction system

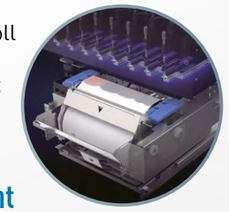
Nozzle Verification Technology for reduced printing errors

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



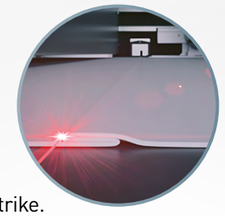
Auto nozzle cleaning by fabric wipe reduces daily manual maintenance work

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



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.

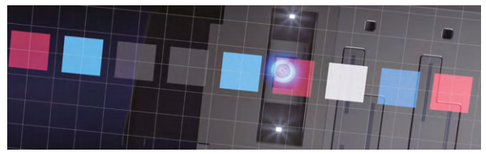
Hot-swappable, high-capacity ink supply for uninterrupted production

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 interruption

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 easily.

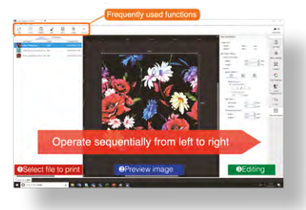
Epson Cloud Solution PORT

Epson's cloud solution solves problems at production sites where ML-8000U is used and improves operational efficiency.

SOFTWARE FOR DIGITAL TEXTILE PRINTING

Epson Edge Print Pro X for easy, high-quality printing

Our original RIP software, Epson Edge Print PRO X, was specifically developed to maximise the performance of PrecisionCore MicroTFP printheads and GENESTA inks. It features an intuitive interface for easy, 3-step, left-to-right operation, as well as step & repeat, hot folders, colour replacement for matching spot colours, and other convenient features. In addition, the ML-8000U is supported by other major textile RIP software, giving you the flexibility to use the RIP solution of your choice.



ColorBlend software for colourways and ink penetration control

ColorBlend is preprocessing software for Epson Edge Print PRO X. ColorBlend lets you create colour variations (colourways) 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, Acid and Pigment inks are GOTS approved by ECOCERT*.

*Genesta RE-N Reactive inks: except one of Grey (Grey RE-N), Genesta AC Acid inks: except Black AC-N / Grey AC-N.

EPSON TEXTILE SOLUTION CENTRES

Full-service support at Global Epson Textile Solution Centres

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.

SPECIFICATIONS

Model Number	ML-8000U		
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	1,850 mm / 72.8 inch		
Max. Print Length	Unlimited		
Max. Fabric Width	1,850 mm / 72.8 inch		
Max. Fabric Thickness	5.0 mm		
Print Speed (Square)[1]	**Reactive / Pigment**	**Acid / Disperse**	
Max. Print Speed (m^2/h)	312	279	(300 x 600 dpi, 1 pass)[2]
Typical. Print Speed 1 (m^2/h)	162	144	(600 x 600 dpi, 2 pass)[3]
Typical. Print Speed 2 (m^2/h)	108	96	(900 x 600 dpi, 3 pass)[4]
Max. Print Speed (sq ft/hr)	3,358	3,003	(300 x 600 dpi, 1 pass)[2]
Typical. Print Speed 1 (sq ft/hr)	1,744	1,550	(600 x 600 dpi, 2 pass)[3]
Typical. Print Speed 2 (sq ft/hr)	1,163	1,033	(900 x 600 dpi, 3 pass)[4]
Print Speed (Linear)[1]			
Max. Print Speed (m^2/h)	208	186	(300 x 600 dpi, 1 pass)[2]
Typical. Print Speed 1 (m^2/h)	108	96	(600 x 600 dpi, 2 pass)[3]
Typical. Print Speed 2 (m^2/h)	72	64	(900 x 600 dpi, 3 pass)[4]
Max. Print Speed (sq ft/hr)	682	610	(300 x 600 dpi, 1 pass)[2]
Typical. Print Speed 1 (sq ft/hr)	354	315	(600 x 600 dpi, 2 pass)[3]
Typical. Print Speed 2 (sq ft/hr)	236	210	(900 x 600 dpi, 3 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”		
Environmental 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: 40 – 60% RH (no condensation)		
Electrical (Main Unit)			
Voltage	380 ~ 415 V, 3 phase + Neutral + Earth, 50Hz/60Hz		
Rated Current	20A		
Power Consumption Operating	1.6 kw		
Certifications			
Safety	Canada: CSA, ICES U.S.A: UL, FCC Brazil: NR12 EU, EFTA countries,Turkey, UK: Machinery Directive, EMC Directive (CE/UKCA) Morocco: Safety & EMC regulation (CP) Rusia, Belarus, Kazakhstan: EAC Ukraine: Safety & EMC regulation (Ukraine conformity mark) Australia, Newzealand: Australia EMC framework (RCM) Korea: MSIP regulation (KC)		
Network			
Transmission Speed	USB 3.0 Ethernet 1000BASE-T		

[1] Printing width: 1,500mm, 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.

Dimensions & Weight

Working Area Dimensions:
4,440 (W) x 6,280 (L) mm

Printer
3,700 (W) x 2,690 (D) x 1,830 (H) mm
(146 x 106 x 72 in)
Approx. 2,110 kg (4,652 lb)

Ink rack (with 10L ink)
880 (W) x 960 (D) x 790 (H) mm
(35 x 38 x 31 in)
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 June 2025