TECHNICAL SPECIFICATIONS

	ML-64000	ML-32000	Evo Tre 16	ML-8000
Print				
Printing Technology	PrecisionCore inkjet technology			
Number of Print Head	64	32	16	8
Gradation process	Variable-Sized Droplet Technology			
Max fabric thickness	Up to 10 mm			Up to 5.0 mm
Max print width	1,800 mm	1,800 / 2,400 / 3,400 mm (71 / 94 / 133 in)	1,800 / 2,400 mm (71 / 94 in)	1,850 mm
Max fabric width	1,800 mm	1,800 / 2,400 / 3,400 mm (71 / 94 / 133 in)	1,800 / 2,400 mm (71 / 94 in)	1,850 mm
GENESTA Ink				
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)			
Acid	Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Cobalt, Orange, Rubine, Fluorescent Flavine, Flourescent Pink, Across (Ink penetration liquid)			
Pigment	Black, Cyan, Magenta, Yellow, Grey, Red, Green, Orange			
INK Capacity	10 liters			
Print Speed (Square)*1				
300 × 600 dpi, 1 pass	–	697 (m^2/h) *5	417 (m^2/h) *5	312 (m^2/h) (Reactive/Pigment) 279 (m^2/h) (Acid/Disperse) *2
600 × 600 dpi, 2 pass	774 (m^2/h)	423 (m^2/h) *5	236 (m^2/h) *5	162 (m^2/h) (Reactive/Pigment) 144 (m^2/h) (Acid/Disperse) *3
900 × 600 dpi, 3 pass	567 (m^2/h)	305 (m^2/h) *5	158 (m^2/h) *5	108 (m^2/h) (Reactive/Pigment) 96 (m^2/h) (Acid/Disperse) *4
Fabric Handling				
Fabric Drive	Conveyer belt with thermoplastic adhesive	Conveyer belt with adhesive		Conveyer belt with thermoplastic adhesive
Belt Washing	Automatic			
Standard Feeder				
Fabric Roll Diameter	–	300 mm (11.8 in)		400 mm (15.7 in)
Fabric Roll Weight	–	100 kg (220 lb)		
Fabric Roll Core Diameter	–	2" or 3" (ML-32000-340 : 3" only)		
Environmental Characteristics				
Temperature	Operating: 20°C - 30°C, Recommended: 22°C - 28°C (Operating: 68°F - 86°F, Recommended: 72°F - 82°F)			
Humidity	Operating: 40 - 60%RH (no condensation)			
Dimensions				
Printer	6,500 (W) x 4,960 (D) x 2,530 (H) (mm) 256 (W) x 195 (D) x 100 (H) (in)	4,610 (W) x 2,500 (D) x 2,070 (H) (mm) *5 181 (W) x 98 (D) x 81 (H) (in)	4,610 (W) x 2,500 (D) x 2,070 (H) (mm) *5 181 (W) x 98 (D) x 81 (H) (in)	3,700 (W) x 2,690 (D) x 1,830 (H) (mm) 146 (W) x 106 (D) x 72 (H) (in)
Control Box	1,600 (W) x 1,200 (D) x 2,640 (H) (mm) 63 (W) x 47 (D) x 104 (H) (in)	660 (W) x 1,500 (D) x 2,290 (H) (mm) *5 26 (W) x 59 (D) x 90 (H) (in)	480 (W) x 1,210 (D) x 1,920 (H) (mm) *5 19 (W) × 48 (D) × 76 (H) (in)	–
Ink Rack	1,760 (W) x 960 (D) x 840 (H) (mm) 69 (W) x 38 (D) x 33 (H) (in)	Internal Ink Rack	1,240 (W) × 1,300 (D) × 1,220 (H) mm 49 (W) × 51 (D) × 48 (H) (in)	880 (W) x 960 (D) x 790 (H) (mm) 35 (W) x 38 (D) x 31 (H) (in)
Weight				
Printer	Approx. 7,000 kg (15,432 lb)	Approx. 3,900 kg (8,598 lb) *5	Approx. 3,700 kg (8,157 lb) *5	Approx. 2,150 kg (4,740 lb)
Control Box	Approx. 700 kg (1,543 lb)	Approx. 400 kg (882 lb)	Approx. 330 kg (728 lb)	–
Ink Rack	Approx. 300 kg (661 lb)	Approx. 240 kg (529 lb)	Approx. 260 kg (573 lb)	Approx. 110 kg (243 lb)
Electrical (Main unit)				
Voltage	400 V, 3phase + Neutral + Earth, 50 Hz/60 Hz			380 - 415 V, 3phase + Neutral + Earth, 50 Hz/60 Hz
Rated Current	30 A	30 A *5	50 A *5	20 A
Apparent Power (Operating)	20.7 kVA	20.7 kVA *5	20.7 kVA *5	14.4 kVA
Network				
Transmission speed	1000BASE-T (recommended)	100BASE-TX or more (recommended)		USB3.0 Ethernet 1000BASE-T

Note

*1: Printing width: 1500 mm, Printing mode: bidirectional. Printing speeds vary depending on such factors as image printed, firmware version, operating state of PC and print settings.

*2: With 300 x 300 dpi 2 Half Tone layers.

*3: With 300 x 300 dpi 4 Half Tone layers.

*4: With 300 x 300 dpi 6 Half Tone layers.

*5 Please contact Epson for the specifications of ML-32000-240 / ML-32000-340 / ML-16000-240.

PRECISIONCORE PRINTHEAD

EPSON®

Monna Lisa Series Direct-to-Fabric Printers

Digital Textile Printing Excellence

A wide range of solutions that can meet all textile market needs

As the growing need for sustainability shapes the textile market landscape, businesses are looking for solutions that maximize benefits to consumers while minimizing impact to the environment. With diversifying consumer needs and the rapid rise of e-commerce, the focus is shifting to both high-mix, low-volume production and local production for near consumption.
We can help you face the challenge of the new future ahead. Together with Epson, you can start your journey into the digital age on the right foot.

Luxury fashion /
Acid ink on silk

Top quality and productivity for high volume

ML-64000

Number of printheads 64 Heads

Print Speed* 774 m²/h

Fast fashion / Reactive ink on cotton

The market reference for quality

EvoTre16

Number of printheads 16 Heads

Print Speed* 236 m²/h

Traditional fashion / Reactive ink on cotton

The most flexible solution with selectable channels configuration

ML-32000

Number of printheads 32 Heads

Print Speed* 423 m²/h

Apparel / Disperse ink on polyester

High quality at an affordable investment

ML-8000

Number of printheads 8 Heads

Print Speed* 162 m²/h

Home textile / Pigment ink on cotton

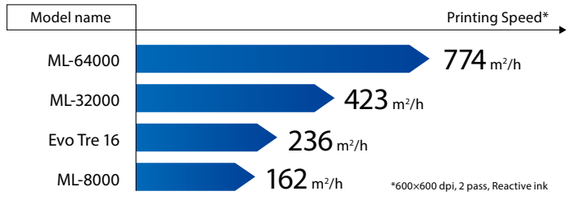
*600×600 dpi, 2 pass, Reactive ink

Epson: the next evolution in digital textile printing

Our key technologies are engineered for stability and maximum productivity, delivering exceptional image quality at high speeds with minimal downtime. The extensive digital textile printing system features state-of-the art printing technology — including PrecisionCore printheads, versatile GENESTA inks, and easy-to-use software — to give you world-class results.

PrecisionCore Micro TFP printheads optimized for maximum productivity

Driving the Monna Lisa is PrecisionCore Micro TFP 4.73-inch high-density printhead, equipped with 8, 16, 32, 64 printheads, you can choose the model according to your productivity needs. Together with exceptionally high dot placement accuracy and advanced image processing technology, enables high print quality and high throughput.



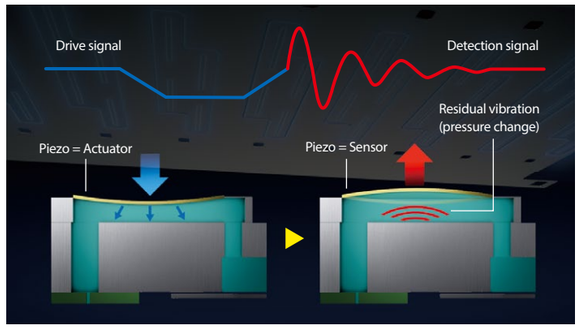
ML-64000 printheads

Stable Operation

Nozzle Verification Technology for reduced printing errors

ML-64000 ML-8000

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



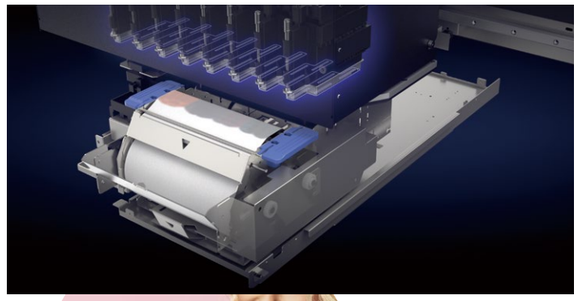
Dual sensor system to prevent costly head strikes

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.

Auto nozzle cleaning by fabric wiper reduces daily manual maintenance work

ML-8000

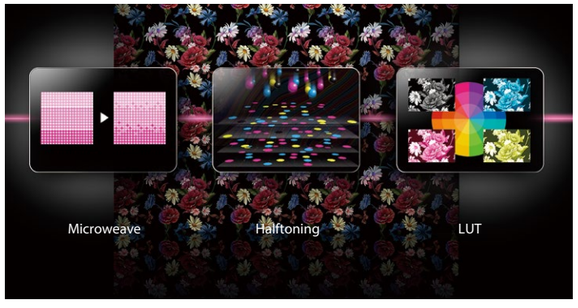
An easy-to-replace fabric wiper roll continuously wipes the printhead nozzles clean to remove fluff that can cause nozzle clogging.



High Image Quality

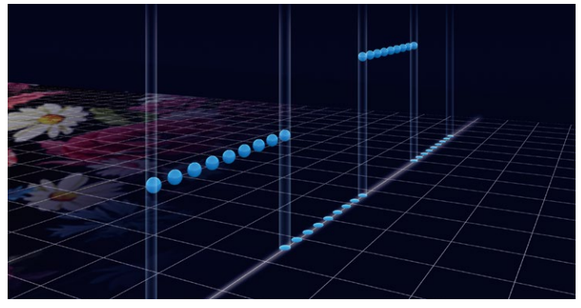
Epson precision dot technology for world-renowned image quality

Epson precision dot technology, refined over many years of inkjet printer development, underlies the superior image quality. In addition, our exclusive Microweave, halftoning, and LUT technologies work together to reduce banding, graininess, and image quality degradation caused by dot placement errors.



Dynamic Alignment Stabilizer (DAS) technology for uniform dot density

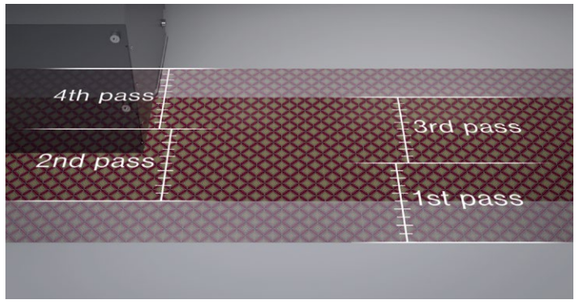
Dynamic Alignment Stabilizer (DAS) technology ensures stable print quality by controlling waveforms on each printhead chip to achieve higher dot placement accuracy and more uniform dot density on each pass.



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

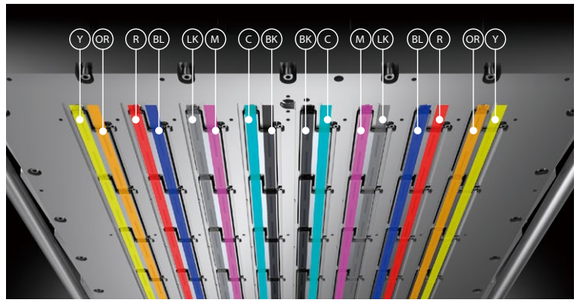
ML-64000 ML-32000 ML-8000

High image quality also requires precise fabric feeding. New Accurate Belt Position Control (ABPC) technology automatically detects belt feeding distance to ensure highly accurate fabric feeding.



Symmetrical color alignment for high bidirectional printing quality

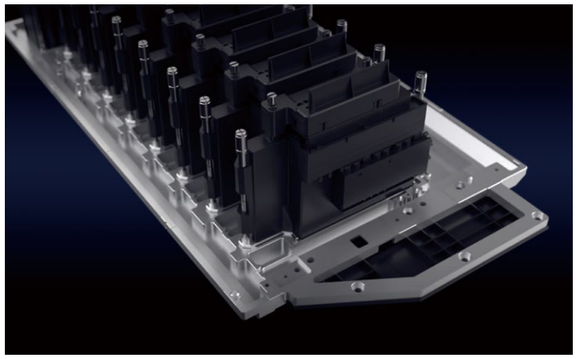
Symmetrical color alignment maintains consistent color overlap order during high-speed bidirectional low-pass printing for uniform image quality.



Minimal Downtime

High-accuracy head alignment technology for easier maintenance

High-precision position pins and holes on the printhead and carriage enable accurate dot placement for high print quality as well as easier maintenance.



High-capacity ink supply for uninterrupted production

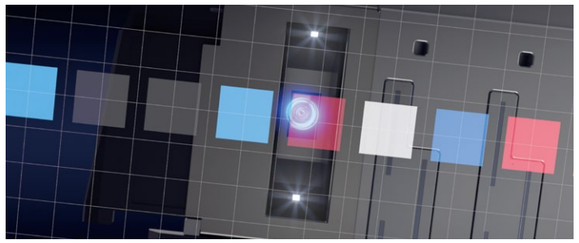
Large capacity vacuum-packed degassed ink cartridges can be loaded for each color, and you don't need to worry about running out of ink halfway through a job because empty cartridges can be replaced while printing is in progress.

ML-64000 ink rack system

Automatic calibration by RGB camera minimizes printing interruptions

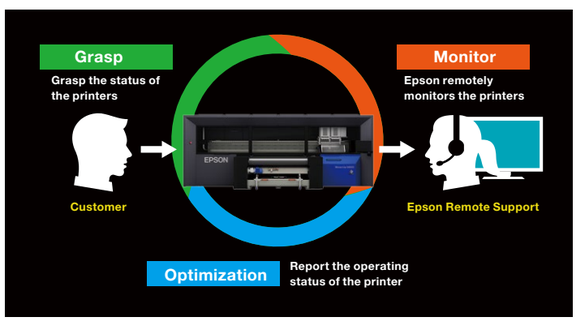
ML-64000 ML-8000

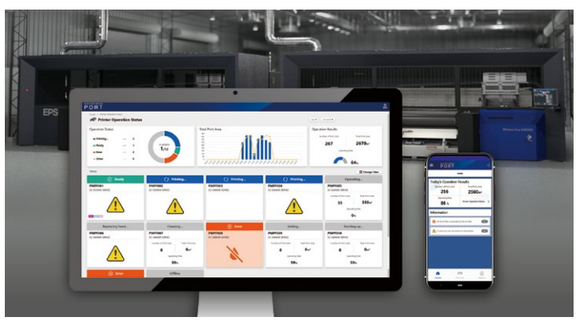
To minimize downtime and get you back up and running quickly after fabric or printhead replacement, a built-in RGB camera automatically analyzes reference patterns and recalibrates printer settings to prevent dot misalignment, banding, and color shift.



Epson Cloud Solution PORT solves problems at production sites and improves operational efficiency

Customer can grasp printer status of all connected printers by Production Monitor from PC or mobile device.
When a printer trouble occurs, Epson service person can monitor the printer to diagnose and solve the problem quickly.





Flexibility

ML-32000 ML-16000

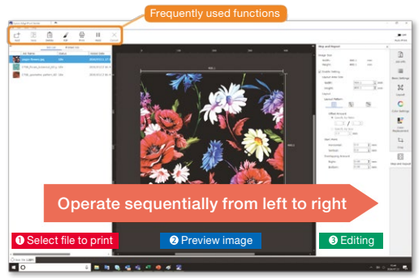
The ML-32000 is the most flexible solution with selectable channels configuration. The 8+8 color configuration can be loaded with two different types of ink simultaneously to increase the fabric types and save your space of printer and dryer.
The printing widths of 2,400mm and 3,400mm are also available.

Ink type1	Ink type2
Reactive ink	Acid ink
Acid ink	Disperse ink
Reactive ink	Disperse ink

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 maximize 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 & repeat, hot folders, color replacement for matching spot colors, and other convenient features. In addition, the Monna Lisa 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 PRO X to define and control colors in channel-separated image files. ColorBlend lets you generate swatch books to match colors, create color 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 certified to meet globally recognized 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*.

OEKO-TEX® CONFIDENCE IN TEXTILES ECO PASSPORT NEP 1701 Nissenken Textile chemicals. Tested and verified. www.oeko-tex.com/ecopassport

bluesign® APPROVED

Total Textile Solution

Total Textile Solution

The all-inclusive textile digital printing system features state-of-the art textile printing technology, Epson PrecisionCore printheads, Genesta inks, and software for printing which offer maximum results based upon Epson technology and fabric treatment expertise. This system finds its highest expression in Monna Lisa series – the successful range of industrial printers and a reference for the high-quality textile printing sector.

Full-service support at global Epson Solution Centers

Experts at Epson 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.

*Genesta RE-N Reactive inks (except Grey RE-N) and Genesta PG-2 Pigment inks