

Monna Lisa ML-18000



Introducing the Monna Lisa ML-18000, the latest innovation in Epson's Monna Lisa digital textile printer lineup. Designed to deliver unparalleled performance, the printer is equipped with 18 PrecisionCore printheads and double black inks, offering the perfect combination of speed, productivity, and superior image quality. With its ability to enhance black density at high printing speeds, the ML-18000 ensures your designs stand out with striking clarity and depth. Plus, its built-in water recycling unit reduces environmental impact by conserving water, making it a smart choice for sustainable production. Leveraging the advanced inkjet printing and manufacturing technologies from Epson, the ML-18000 is a next-generation solution that will elevate your production capabilities and drive your business forward.

Boost Your Productivity with Enhanced Black Density

The ML-18000 features 18 of Epson's latest 4.73-inch high-density PrecisionCore Micro TFP printheads, allowing it to deliver exceptional productivity (252 sqm/h, 600x600 dpi, 2 pass) without compromising on quality. The innovative double black ink technology delivers rich, deep black tones even at high printing speeds, perfect for applications in fashion, interior design, and more. The ML-18000 uses a higher percentage of black ink than the ML-16000, thereby improving the OD value and reducing the increase in ink usage. This printer enables you to achieve outstanding results with every print, keeping you ahead of the competition.

Reduced water usage by Water Recycling Unit

The water recycling unit conserves valuable water resources by filtering and recycling the water used for belt cleaning. The compact water recycling unit features a small footprint, allowing it to connect to the ML-18000 without disrupting printer setup or existing workflows. A built-in sensor continuously monitors the level of water contamination, ensuring maximum recycling efficiency in compliance with local wastewater drainage regulations.*1

Monna Lisa Quality

Epson precision dot technologies include microweave and lookup table technologies that reduce banding and graininess, and advanced multi-layer halftone technology that randomises the halftone dot pattern to reduce image degradation caused by dot misalignment. The ML-18000 also features symmetrical colour alignment for consistent colour overlap order during high-speed bidirectional printing, and accurate belt position control technology for precise fabric feeding. Epson Edge Print PRO X is genuine Epson RIP software which supports Adobe PDF Print Engine (APPE) - the industry's leading technology with 16-bit rendering. The result is optimal quality and speed, with superb reproduction of colour gradations, vivid designs, fine details, and complex geometric patterns. Stable operation and unprecedented usability are realised by high-capacity ink system (10 litres x 2), advanced cleaning mechanisms and automated adjustment functions such as a nozzle verification technology, a fluff blower system, an ink mist extraction system, and auto nozzle cleaning by fabric wiper and auto calibration by the built-in RGB camera.

Environmentally friendly inks

Epson GENESTA Reactive ink is ECO PASSPORT certified to meet globally recognized standards for environmentally friendly textile printing, and GOTS approved by ECOCERT.*2

Comprehensive solutions for textile and global sales and support network

The printheads, printer, ink, and software are all developed and manufactured by Epson for optimum quality with maximum reliability. Epson has sales offices, demo centers, solution centers and service sites around the globe to support customers on-site locally for any printing issues as a one-stop service. Epson Cloud Solution PORT allows to view the print status of all connected printers from a PC or mobile device, helping to maximize productivity. Epson's remote monitoring of the printer's status enables accurate failure diagnosis, which is difficult to achieve with conventional telephone support.

Datasheet



Key features

Productivity

Maximum printing speed
450 sqm/h (300 x 600 dpi, 1 pass)*2
Typical printing speed
252 sqm/h (600 x 600 dpi, 2 pass)*3
162 sqm/h (900 x 600 dpi, 3 pass)*4

High print quality

18 PrecisionCore Micro TFP printheads
Double black inks printing
Symmetrical colour alignment
Epson precision dot technology
Multi-layer halftone technology
Dynamic alignment stabilizer technology
Accurate belt position control technology

Stable operation / easy maintenance

Water recycling unit
Fluff blower system
Ink mist extraction system
Nozzle verification technology
Auto nozzle cleaning by fabric wiper
Built-in RGB camera for auto calibration
Epson Cloud Solution PORT
Epson Edge Print PRO X2 (Option)
Epson Edge Print PRO X WF (Option)

Easy operation

10.1-inch LCD touch panel
Dual 10-litre high-capacity ink cartridges



GOTS Approved Additive
Approved by Ecocert Greenlife
GOTS-ECOCERT-08-01219

*1 Costs and compliance with local wastewater drainage regulations will vary according to print volume and the locale in which the printer and water recycling unit are used.

*2 Genesta RE-N Reactive inks: except one of Grey (Grey RE-N).

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Technical specifications

Print	Printing Technology Number of Printheads Number of Color Maximum Print Resolution Gradation process Max print width (mm) Max print width (inch) Max print length (mm) Max fabric width (mm) Max fabric width (inch) Max fabric thickness (mm)	PrecisionCore inkjet technology 18 8 1,200 x 1,200 dpi Variable-sized droplet technology 1,850 72.8" Unlimited 1,850 72.8" 5.0
Ink	GENESTA Reactive Ink Ink Capacity	Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Orange, Crimson 10 litres
Print speed (square)*¹	Maximum Printing Speed (m ² /h) Typical Printing Speed 1 (m ² /h) Typical Printing Speed 2 (m ² /h) Maximum Printing Speed (sq ft/hr) Typical Printing Speed 1 (sq ft/hr) Typical Printing Speed 2 (sq ft/hr)	450 (300x600 dpi, 1 pass) ⁻¹ 252 (600x600 dpi, 2 pass) ⁻² 162 (900x600 dpi, 3 pass) ⁻³ 4,844 (300x600 dpi, 1 pass) ⁻¹ 2,713 (600x600 dpi, 2 pass) ⁻² 1,744 (900x600 dpi, 3 pass) ⁻³
Print speed (linear)*¹	Maximum Printing Speed (lmt/h) Typical Printing Speed 1 (lmt/h) Typical Printing Speed 2 (lmt/h) Maximum Printing Speed (li ft/hr) Typical Printing Speed 1 (li ft/hr) Typical Printing Speed 2 (li ft/hr)	300 (300x600 dpi, 1 pass) ⁻¹ 168 (600x600 dpi, 2 pass) ⁻² 108 (900x600 dpi, 3 pass) ⁻³ 984 (300x600 dpi, 1 pass) ⁻¹ 551 (600x600 dpi, 2 pass) ⁻² 354 (900x600 dpi, 3 pass) ⁻³
Fabric handling	Fabric Drive Belt Washing	Conveyor belt with thermoplastic adhesive Automatic
Standard feeder	Fabric Roll Diameter (mm) Fabric Roll Weight (kg) Fabric Roll Core Diameter (inch) Fabric Roll Diameter (inch) Fabric Roll Weight (lb)	400 100 2" or 3" 15.7" (2" or 3" shaft) 220 (2" or 3" shaft)
Environmental characteristics	Temperature (C) Temperature (F) Humidity	Operating: 20°C - 35°C, Recommended: 22°C - 28°C Operating: 68°F - 95°F, Recommended: 72°F - 82°F Operating: 40 - 60%RH (no condensation)
Dimensions	Printer (mm) Ink Rack (mm) Printer (inch) Ink Rack (inch)	4,200(W) x 2,660(D) x 1,830(H) 550(W) x 1,990(D) x 1,450(H) 165(W) x 105(D) x 72(H) 22(W) x 78(D) x 57(H)
Weight	Printer (kg) Ink Rack (kg) Printer (lb) Ink Rack (lb)	Approx. 2,190 Approx. 160 (not including ink) Approx. 4,828 Approx. 353 (not including ink)
Electrical	Voltage Rated Current Power Consumption (Operating)	380~415V, 3phase+Neutral+Earth, 50Hz/ 60Hz 14 A 2.6 kw
Certifications	Safety/Electromagnetic	U.S.A : UL, FCC Brazil : NR12 EU, EFTA countries, Turkey, UK : Machinery Directive, EMC Directive (CE/UKCA) Morocco : Safety & EMC regulation (CP) Ukraine : Safety & EMC regulation (Ukraine conformity mark) Australia : Australia EMC framework (RCM) Korea : MSIP regulation (KC)
Network	Transmission speed	USB 3.0 (for printing) Ethernet 1000BASE-T (for data communication except printing)
Software	RIP software	Epson Edge Print PRO X2 (Option), Epson Edge Print PRO X WF (Option)

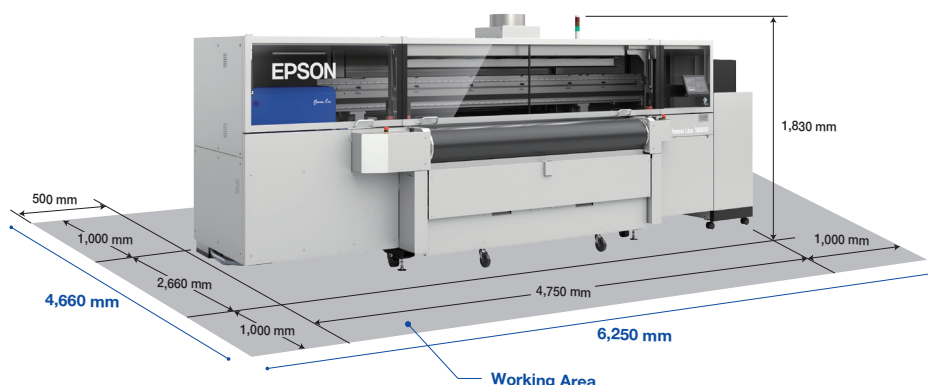
• Printing width: 1500mm, printing mode: Bidirectional. Printing speeds vary depending on such factors as image printed, firmware version, operating state of PC and print settings.

*1: With 300x300dpi 2 half tone layers

*2: With 300x300dpi 4 half tone layers

*3: With 300x300dpi 6 half tone layers

ML-18000 & Working area dimensions



PRECISIONCORE
PRINTHEAD