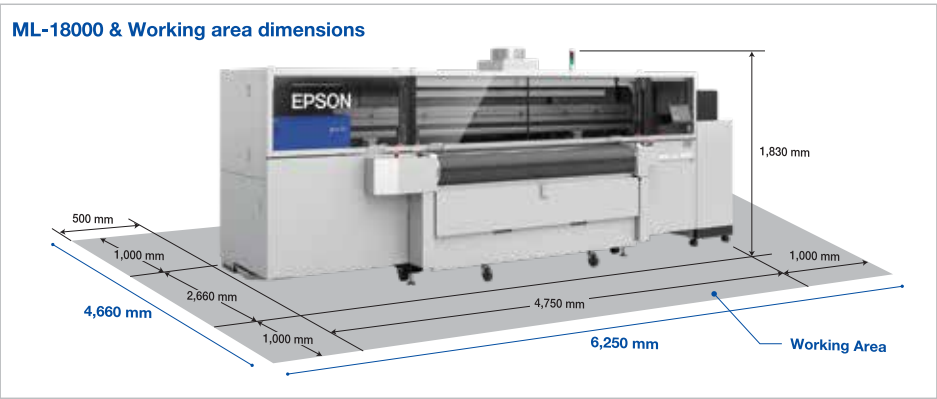


Technical specifications

Print	Printing Technology	PrecisionCore inkjet technology
	Number of Printheads	18
	Number of Color	8
	Maximum Print Resolution	1,200 x 1,200 dpi
	Gradation process	Variable-sized droplet technology
	Max print width (mm)	1,850
	Max print width (inch)	72.8"
	Max print length (mm)	Unlimited
	Max fabric width (mm)	1,850
	Max fabric width (inch)	72.8"
	Max fabric thickness (mm)	5.0
Ink	GENESTA Reactive Ink	Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Orange, Crimson
	Ink Capacity	10 litres
Print speed (square)*1	Maximum Printing Speed (m <sup>2</sup> /h)	450 (300x600 dpi, 1 pass) <sup>*1</sup>
	Typical Printing Speed 1 (m <sup>2</sup> /h)	252 (600x600 dpi, 2 pass) <sup>*2</sup>
	Typical Printing Speed 2 (m <sup>2</sup> /h)	162 (900x600 dpi, 3 pass) <sup>*3</sup>
	Maximum Printing Speed (sq ft/hr)	4,844 (300x600 dpi, 1 pass) <sup>*1</sup>
	Typical Printing Speed 1 (sq ft/hr)	2,713 (600x600 dpi, 2 pass) <sup>*2</sup>
	Typical Printing Speed 2 (sq ft/hr)	1,744 (900x600 dpi, 3 pass) <sup>*3</sup>
Print speed (linear)*1	Maximum Printing Speed (lmt/h)	300 (300x600 dpi, 1 pass) <sup>*1</sup>
	Typical Printing Speed 1 (lmt/h)	168 (600x600 dpi, 2 pass) <sup>*2</sup>
	Typical Printing Speed 2 (lmt/h)	108 (900x600 dpi, 3 pass) <sup>*3</sup>
	Maximum Printing Speed (li ft/hr)	984 (300x600 dpi, 1 pass) <sup>*1</sup>
	Typical Printing Speed 1 (li ft/hr)	551 (600x600 dpi, 2 pass) <sup>*2</sup>
	Typical Printing Speed 2 (li ft/hr)	354 (900x600 dpi, 3 pass) <sup>*3</sup>
Fabric handling	Fabric Drive	Conveyor belt with thermoplastic adhesive
	Belt Washing	Automatic
Standard feeder	Fabric Roll Diameter (mm)	400
	Fabric Roll Weight (kg)	100
	Fabric Roll Core Diameter (inch)	2" or 3"
	Fabric Roll Diameter (inch)	15.7" (2" or 3" shaft)
	Fabric Roll Weight (lb)	220 (2" or 3" shaft)
Environmental characteristics	Temperature (C)	Operating: 20°C - 35°C, Recommended: 22°C - 28°C
	Temperature (F)	Operating: 68°F - 95°F, Recommended: 72°F - 82°F
	Humidity	Operating: 40 - 60%RH (no condensation)
Dimensions	Printer (mm)	4,200(W) x 2,660(D) x 1,830(H)
	Ink Rack (mm)	550(W) x 1,990(D) x 1,450(H)
	Printer (inch)	165(W) x 105(D) x 72(H)
	Ink Rack (inch)	22(W) x 78(D) x 57(H)
Weight	Printer (kg)	Approx. 2,190
	Ink Rack (kg)	Approx. 160 (not including ink)
	Printer (lb)	Approx. 4,828
	Ink Rack (lb)	Approx. 353 (not including ink)
Electrical	Voltage	380~415V, 3phase+Neutral+Earth, 50Hz/ 60Hz
	Rated Current	14 A
	Power Consumption (Operating)	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)
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



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**PRECISIONCORE**  
PRINTHEAD

**EPSON**

ML-18000

Monna Lisa 18000  
Next generation productivity  
with double black inks



**EPSON**



# ML-18000 is a next-generation solution that will elevate your production capabilities and drive your business forward

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.

### 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.

ML-18000	sqm/hr
300 x 600dpi 1 pass* <sup>1</sup>	450
600 x 600dpi 2 pass* <sup>2</sup>	252
900 x 600dpi 3 pass* <sup>3</sup>	162



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.

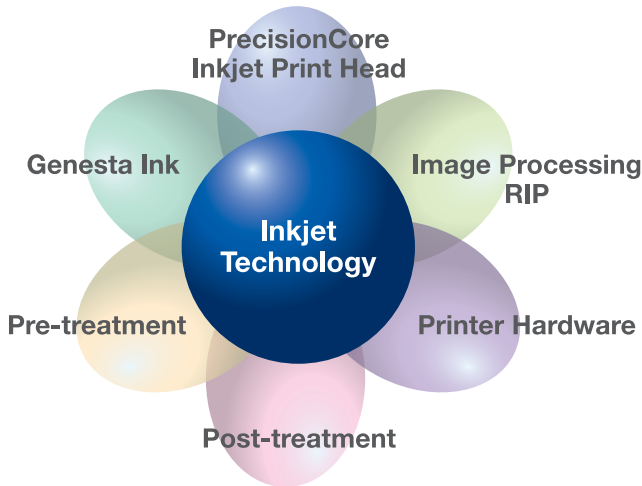


Reactive ink, Cotton 100%, Epson Edge Print PRO X2, 600x600 dpi / 2 pass  
Pre-treatment: PREGEN R800B, Post-treatment: steam/washing

\* The OD values are the result of Epson's internal evaluation and vary depending on fabric and printing conditions.

### Comprehensive solutions for textile

The printheads, printer, ink, and software are all developed and manufactured by Epson for optimum quality with maximum reliability and one-stop service.

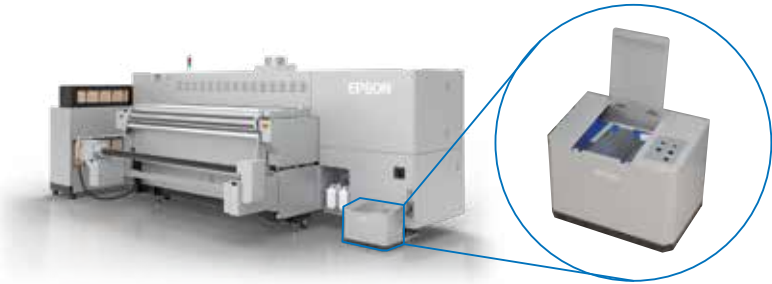


# Environmental benefits

Built-in water recycling unit reduces environmental impact by conserving water, making it a smart choice for sustainable production.

### Reduced water usage by water recycling unit

The textile industry is responsible for approximately 20% of industrial wastewater worldwide\*<sup>1</sup>. Inkjet printing reduces industrial wastewater and chemical waste because the process is simpler than conventional automatic screen printing. Plus, its built-in 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.\*<sup>2</sup>



### Produce on demand

It is estimated that 35% of all materials in the textile supply chain end up as waste.\*<sup>3</sup> Print just the right amount, on-demand to reduce dead stock and manage excess inventory.

### Environmentally friendly ink

Epson GENESTA Reactive ink is ECO PASSPORT certified to meet globally recognized standards for environmentally friendly textile printing, and GOTS approved by ECOCERT.\*<sup>4</sup>



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

Direct-to-fabric (DTF) printing offers several advantages over conventional automatic screen printing

### Faster turnaround

With fewer steps involved in the printing process, DTF printing can offer quicker turnaround times.

### Customization and short runs

DTF printing is perfect for producing unique, customized designs. Whether it's a one-off piece or a small batch, DTF allows for high-quality prints without the need for extensive setup.

### Color and detail

One of the standout features of DTF printing is its ability to produce vibrant colors and intricate details. Unlike screen printing, which requires a separate screen for each color, DTF can handle complex, multi-colored designs, the results in sharper images and more accurate color reproduction.

\*<sup>1</sup> World Bank, 2019 How Much Do Our Wardrobes Cost to the Environment?  
\*<sup>2</sup> 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.  
\*<sup>3</sup> National Library of Medicine, USA. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9983045/>  
\*<sup>4</sup> Genesta RE-N Reactive inks: except one of Grey (Grey RE-N).



Key features & User benefits

High productivity

- 18 PrecisionCore MicroTFP printheads
- Double black ink technology
- 252 sqm/h (600 x 600 dpi, 2 pass)\*
- Symmetrical color alignment

High print quality

- Epson precision dot technology
- Multi-layer halftone technology
- Accurate belt position control technology

Easy operation

- Water recycling unit
- Dual 10L high-capacity ink cartridges
- 10.1 inch LCD touch panel



Stable operation

- Nozzle verification technology
- Auto nozzle cleaning by fabric wiper
- Production monitor with Epson Cloud Solution PORT (PC and Mobile)
- Fluff blower system
- Ink mist extraction system
- Dual head-strike sensors

Textile software

- Epson Edge Print PRO X
- Epson's color management system

Minimal downtime

- Local sales/service/support
- Remote service with Epson remote monitoring system
- High-accuracy head alignment technology (easy head replacement)
- Auto calibration with built-in RGB camera

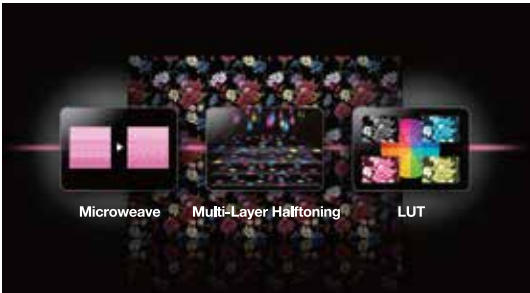


# Epson Printing Technology: Advancing digital fabric printing

The result of many years of design, development and refinement, ML-18000 is built for consistency, reliability and high print quality.

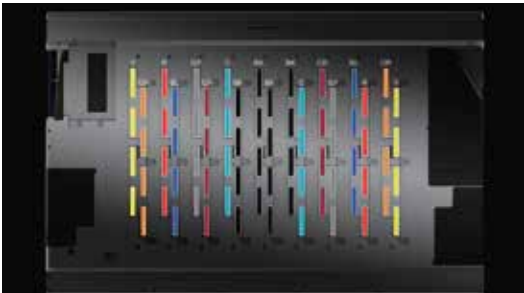
Epson precision dot technology for world-renowned image quality

Epson precision dot technologies include microweave and lookup table (LUT) technologies that reduce banding and graininess, and new, advanced Multi-layer halftone technology randomizes the halftone dot pattern to reduce image degradation caused by dot misalignment.



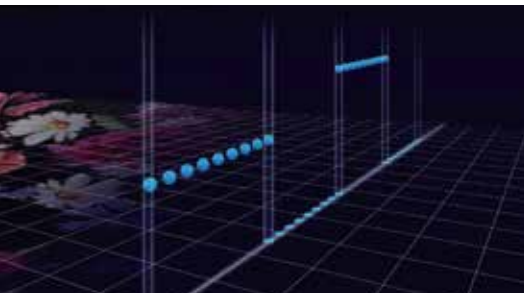
Symmetrical color alignment and accurate belt position control technology

The ML-18000 features symmetrical color alignment for consistent color overlap order during high-speed bidirectional printing, and accurate belt position control technology for precise fabric feeding.



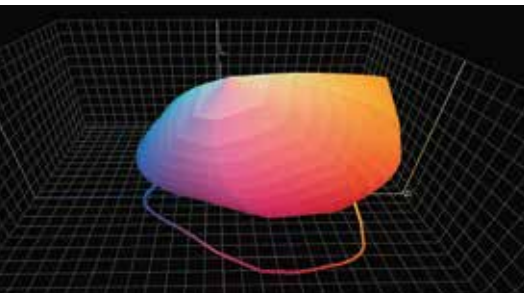
Dynamic alignment stabilizer technology for uniform dot density

Dynamic alignment stabilizer technology ensures stable print quality by controlling waveforms on printhead chip to achieve higher dot placement accuracy and more uniform dot density on each pass.



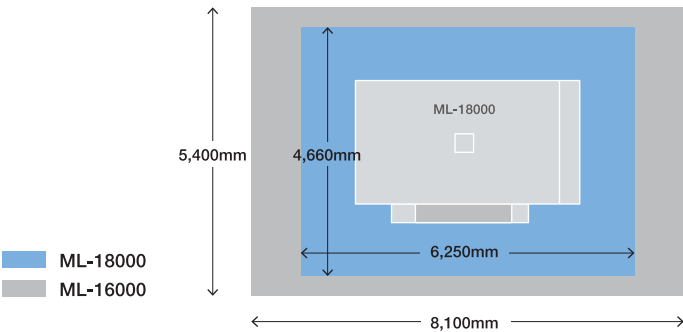
Wide color gamut for high quality printing with fine details

The wide color gamut enables the creation of vivid designs. Color gradations, small texts, fine details, and complex geometric patterns can be printed with high image quality.



Smaller installation space

ML-18000 is 33% smaller working area comparison to conventional ML-16000.



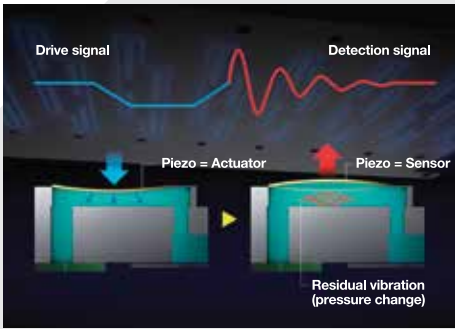


# High reliability and easy operation with purpose-built technology

Technologies to minimize customer downtime and ensure stable operation.

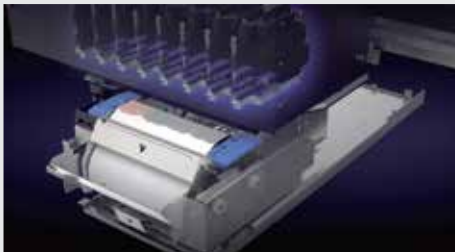
## Nozzle verification technology and advanced cleaning mechanisms

Nozzle verification technology detects missing dots that indicate nozzle clogging, and adjusts ink delivery to maintain image quality and reduce printing errors. A fluff blower system removes fluff from the fabric surface before it enters the printing area, and an ink mist extraction system helps reduce nozzle clogging problems.



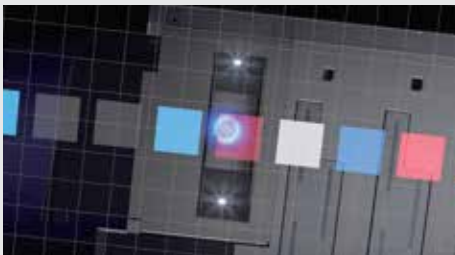
## Auto nozzle cleaning by fabric wiper reduces daily manual maintenance work

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



## High-accuracy head alignment technology and built-in RGB camera for easy printhead replacement

High-precision positioning pins and holes on the printhead and carriage enable to replace printheads quickly. To minimize downtime after printhead replacement, a built-in RGB camera automatically analyzes reference patterns and recalibrates printer settings to prevent dot misalignment, banding, and color shift.



## Hot-swappable ink supply for uninterrupted production

Dual 10 liter high-capacity ink cartridges are hot-swappable, enabling continuous printing.



## 10.1-inch LCD touch panel for at-a-glance operating ease

In addition to displaying the 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.



# Rely on Epson every step of the way

Epson service, support and software create an enhanced and comprehensive digital fabric printing solution.



## Epson Edge Print PRO X RIP software (Option) maximises performance

Epson Edge Print PRO X is designed to maximize the performance of PrecisionCore MicroTFP printheads and GENESTA inks. It is easy to use with an intuitive interface. Epson Edge Print PRO X series software supports Adobe PDF Print Engine (APPE) - the industry's leading technology and new 16-bit rendering. The feature-rich software includes step and repeat, hot folders, print cost analysis tool and color adjustment for matching spot colors. The user interface is offered in 13 languages.

## Remote monitoring platform for production printers

Take control of your printer fleet and achieve next-level productivity with Epson Cloud Solution PORT - a breakthrough platform for easy remote monitoring of Epson production printers. Designed with simplicity and security in mind, the Epson Cloud Solution PORT provides a live view of your printer fleet production<sup>\*1</sup>, equipment utilization, and service information to better manage efficiency and optimize your Epson printing workflow.

<sup>\*1</sup> All features of this system require an active internet connection and use of a supported browser.



## Rely on local Epson around the globe

Epson has sales offices, demo/solution centers and local service teams around the globe to support customer

