

PEAK PERFORMANCE WITH DUAL BLACK ADVANTAGE.



Engineered for deeper blacks, sharper detail, and maximum productivity.

The Epson ML-18000 is a next-generation Direct-to-Fabric solution engineered for industrial scale textile production. Designed to deliver unparalleled performance, the printer is equipped with 18 of Epson's PrecisionCore printheads and dual black ink channels to deliver deeper blacks at high printing speeds. With its ability to enhance black density, the ML-18000 ensures your designs stand out with striking clarity and depth. The ML-18000 is integrated with a water recycling unit to reduce water consumption, making it a smart choice for sustainable production.

ENGINEERED FOR good



Superior Black Density

Dual black ink technology enhances depth and contrast, delivering richer blacks even at high speeds.

High-Speed Productivity

Achieve up to 450 m²/h with 18 PrecisionCore printheads – perfect for fast, high-volume textile output.

Sustainable Printing

Built-in water recycling unit reduces wastewater, supporting eco-friendly and cost-efficient production.

Next-Generation Printing for Unmatched Performance

The ML-18000 is engineered to elevate your production capabilities and drive your business forward. Equipped with 18 PrecisionCore printheads and dual black inks, it delivers the perfect balance of speed, productivity, and superior image quality. The advanced technology of the ML-18000 enhances black density even at high printing speeds, ensuring your designs stand out with remarkable clarity and depth.

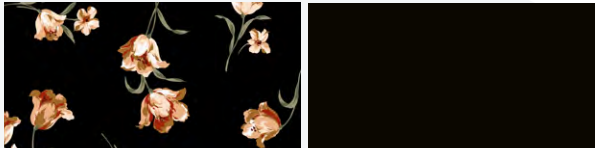
Boost Your Productivity With Enhanced Black Density

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, 600 x 600 dpi, 2 pass) without compromising on quality.



ML-18000		
300 x 600 dpi, 1 pass	600 x 600 dpi, 2 pass	900 x 600 dpi, 3 pass
450 sqm/h	250 sqm/h	162 sqm/h

The innovative dual black ink technology delivers rich, deep black tones even at high printing speeds, perfect for applications in fashion, interior design, and more. This printer enables you to achieve outstanding results with every print, keeping you ahead of the competition.

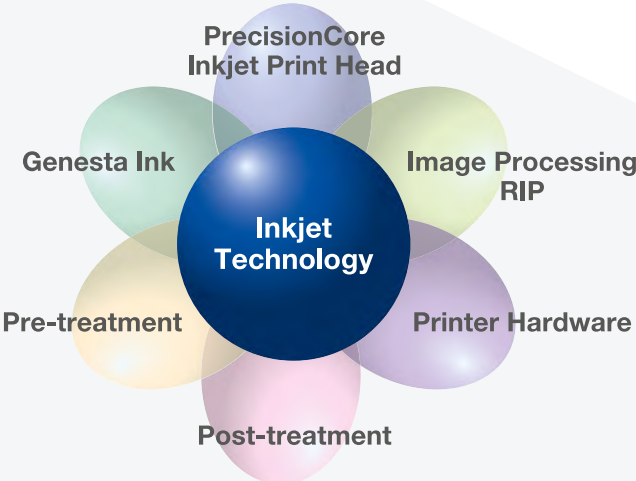


ML-18000
100% (Black x2)
Optical Density (OD): 1.63*

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



The Advantages of Digital Direct-to-Fabric Printing

Digital Direct-to-Fabric printing offers several advantages over conventional automatic screen printing.

Faster Turnaround

With fewer steps involved in the printing process, digital Direct-to-Fabric printing can offer quicker turnaround times.

Customisation and Short Runs

Digital Direct-to-Fabric printing is perfect for producing unique, customised designs. Whether it’s a one-off piece or a small batch, it enables high-quality prints without the need for extensive setup.

Colour and Detail

One of the standout features of digital Direct-to-Fabric printing is its ability to produce vibrant colours and intricate details. Unlike screen printing, which requires a separate screen for each colour, it can handle complex, multi-coloured designs, which results in sharper images and more accurate colour reproduction.

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 generates approximately 20% of the world’s industrial wastewater.*¹ Inkjet printing helps reduce both wastewater and chemical discharge due to its simpler process compared to conventional automatic screen printing.

Additionally, a built-in water recycling unit conserves valuable water resources by filtering and reusing the water used for belt cleaning. This compact unit has a small footprint, allowing seamless integration with the ML-18000 without disrupting printer setup or existing workflows. A built-in sensor continuously monitors water contamination levels to ensure maximum recycling efficiency while meeting local wastewater discharge regulations.*²

Produce On Demand

It is estimated that 35% of all materials in the textile supply chain end up as waste.*³ 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 recognised standards for environmentally friendly textile printing, and GOTS approved by ECOCERT.*⁴



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



Key Features & User Benefits

High Productivity

- 18 PrecisionCore MicroTFP printheads
- Dual 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 colour 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

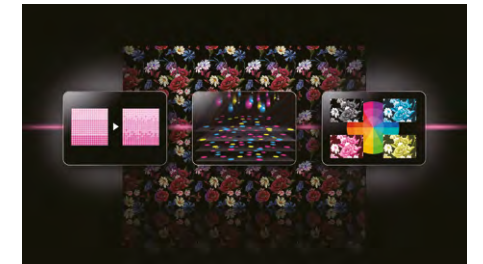
Epson Printing Technology

Advancing Digital Fabric Printing

Built on years of innovation and refinement, the ML-18000 ensures consistent reliability and superior print quality.

Epson Precision Dot Technology for World-renowned Image Quality

Epson's Precision Dot technology combines Microweave and LUT (lookup table) technologies to reduce banding and graininess. Additionally, the advanced Multi-layer Halftone technology randomises halftone dot patterns, minimising image degradation caused by dot misalignment.



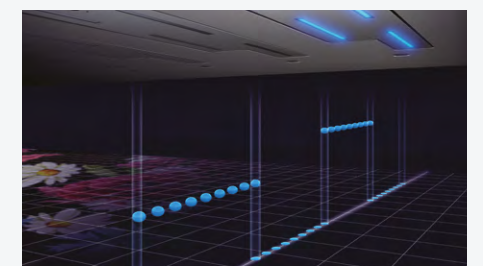
Symmetrical Colour Alignment and Accurate Belt Position Control Technology

The ML-18000 features symmetrical colour alignment to maintain consistent colour overlap during high-speed bidirectional printing. Its precise belt position control technology ensures accurate fabric feeding for optimal print quality.



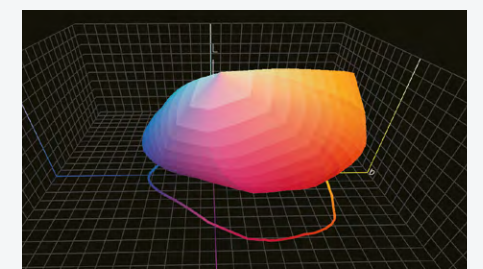
Dynamic Alignment Stabilizer Technology for Uniform Dot Density

Dynamic Alignment Stabiliser technology ensures stable print quality by controlling the waveforms on the printhead chip, achieving higher dot placement accuracy and more uniform dot density with each pass.



Wide Colour Gamut for High Quality Printing with Fine Details

The wide colour gamut allows for the reproduction of vivid, vibrant designs. It ensures high image quality when printing colour gradations, small text, fine details, and complex geometric patterns.



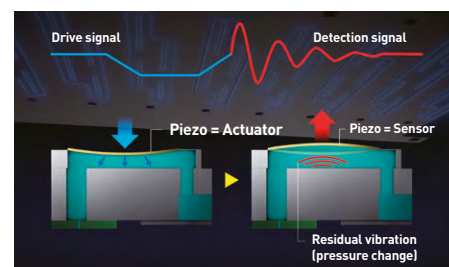
Stable Operation

Enabled By Built-in Reliability Features

Technologies to minimise customer downtime and ensure stable operation.

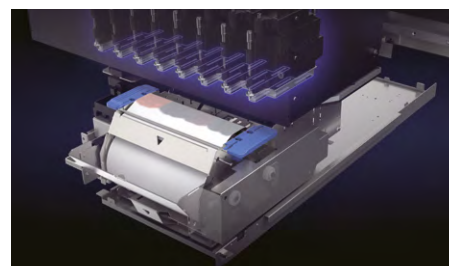
Nozzle Verification Technology and Advanced Cleaning Mechanisms

Nozzle verification technology detects missing dots caused by nozzle clogging and adjusts ink delivery to maintain image quality and reduce printing errors. Additionally, a fluff blower system removes debris from the fabric surface before printing, while an ink mist extraction system helps minimise nozzle clogging.



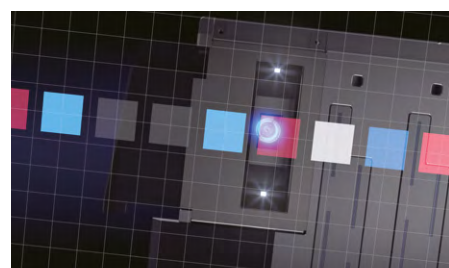
Auto Nozzle Cleaning by Fabric Wiper Reduces Daily Manual Maintenance Work

An easy-to-replace cloth wiper roll continuously cleans the printhead nozzles, removing dust that could cause 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 quick and accurate printhead replacement. To minimise downtime, a built-in RGB camera automatically analyses reference patterns and recalibrates printer settings to prevent dot misalignment, banding, and color shifts.



Hot-swappable Ink Supply for Uninterrupted Production

Dual 10-litre high-capacity ink cartridges are hot-swappable, allowing continuous printing without downtime.



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 provides information on ink and fabric, temperature and humidity, platen gap, and routine maintenance procedures.



High Reliability

Trusted Support Throughout Setup And Service

Epson's comprehensive service, support, and software solutions ensure a seamless digital fabric printing experience.

Epson Edge Print PRO X RIP Software (Option) Maximises Performance

Epson Edge Print PRO X is designed to maximise the performance of PrecisionCore MicroTFP printheads and GENESTA inks. It features an intuitive, easy-to-use interface and supports Adobe PDF Print Engine (APPE) – the industry-leading technology – along with advanced 16-bit rendering. This feature-rich software includes tools such as step and repeat, hot folders, print cost analysis, and colour adjustment for precise spot colour matching. The user interface is available in 13 languages.

Remote Monitoring Platform for Production Printers

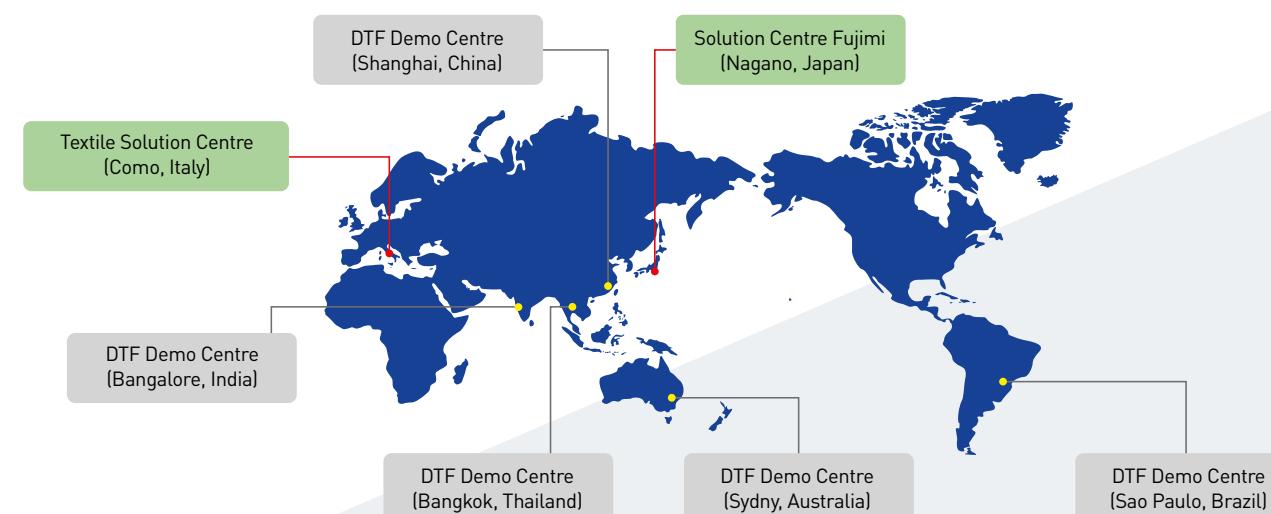
Take control of your printer fleet and boost productivity with Epson Cloud Solution PORT — an advanced platform for easy, secure remote monitoring of Epson production printers. Designed for simplicity and efficiency, it provides a live view of production status*, equipment utilisation, and service information, helping you manage performance and optimise your Epson printing workflow.

* All features of this system require an active internet connection and use of a supported browser.



Rely on Local Epson Support Around the Globe

Epson has sales offices, demo and solution centers, and local service teams worldwide to support customers wherever they operate.



SPECIFICATIONS

Model Number	ML-18000	
Print		
Printing Technology	PrecisionCore Inkjet Technology	
Number of Print Head	18	
Number of Colour	8	
Maximum Resolution	1,200 x 1,200 dpi	
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		
Max. Print Speed (m ² /h)	450	(300 x 600 dpi, 1 pass) ¹
Typical. Print Speed 1 (m ² /h)	252	(600 x 600 dpi, 2 pass) ²
Typical. Print Speed 2 (m ² /h)	162	(900 x 600 dpi, 3 pass) ³
Max. Print Speed (sq ft/h)	4,844	(300 x 600 dpi, 1 pass) ¹
Typical. Print Speed 1 (sq ft/h)	2,713	(600 x 600 dpi, 2 pass) ²
Typical. Print Speed 2 (sq ft/h)	1,744	(900 x 600 dpi, 3 pass) ³
Print Speed (linear)¹		
Max. Print Speed (lmt/h)	300	(300 x 600 dpi, 1 pass) ¹
Typical. Print Speed 1 (lmt/h)	168	(600 x 600 dpi, 2 pass) ²
Typical. Print Speed 2 (lmt/h)	108	(900 x 600 dpi, 3 pass) ³
Max. Print Speed (li ft/h)	984	(300 x 600 dpi, 1 pass) ¹
Typical. Print Speed 1 (li ft/h)	551	(600 x 600 dpi, 2 pass) ²
Typical. Print Speed 2 (li ft/h)	354	(900 x 600 dpi, 3 pass) ³
Fabric Handling		
Fabric Drive	Conveyor belt with thermoplastic adhesive	
Belt Washing	Automatic	
Standard Feeder		
Fabric Roll Diameter (mm) / (inch)	400 / 15.7 (2" or 3" shaft)	
Fabric Roll Weight (Kg) / (lb)	100 / 220 (2" or 3" shaft)	
Fabric Roll Core Diameter (inch)	2" or 3"	
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)	
Electrical (Main Unit)		
Voltage	380 ~ 415 V, 3 phase + 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) 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: 1,500mm, 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.

Dimensions & Weight

Printer

4,200 (W) x 2,660 (D) x 1,830 (H) mm
(165 x 105 x 72 in)

Approx. 2,190 kg (4,828 lb)

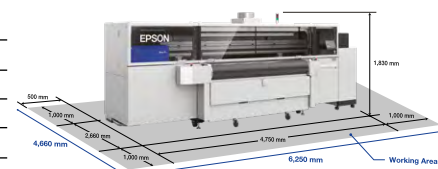
Ink rack (with 10L ink)

550 (W) x 1,990 (D) x 1,450 (H) mm
(22 x 78 x 57 in)

Approx. 160 kg (353 lb, not including ink)

Working Area Dimensions:

4,660 (W) x 6,250 (L) mm



GENESTA INK

Reactive

Black, Cyan, Magenta, Yellow, Grey,
Red, Blue, Orange, Crimson,
ACROSS (Ink penetration liquid)

Ink capacity

10 litres

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Dealer's Stamp

Information correct at time of printing.
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Find out more at www.epson.com.sg/gobig-direct-to-fabric

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