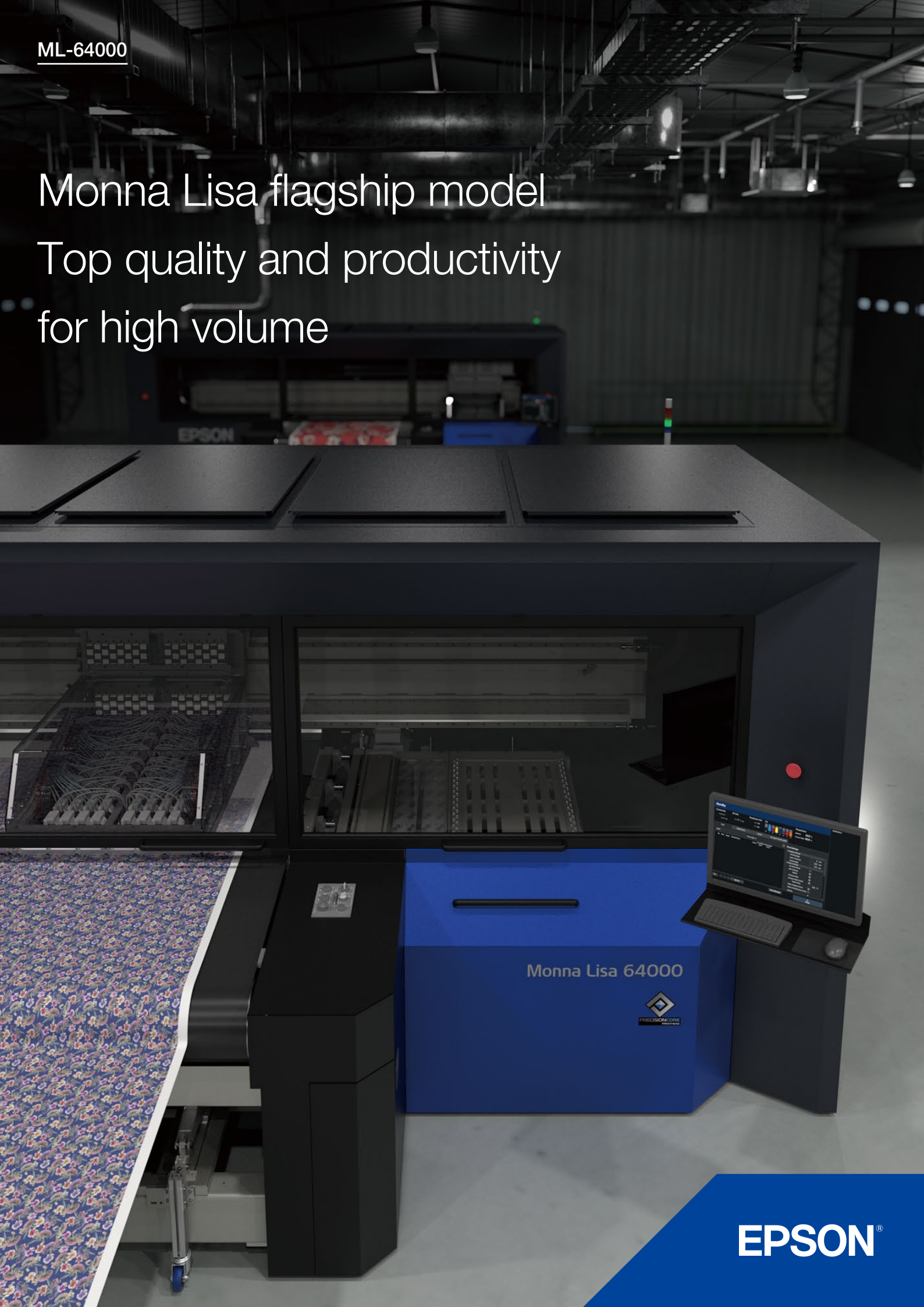
ML-64000

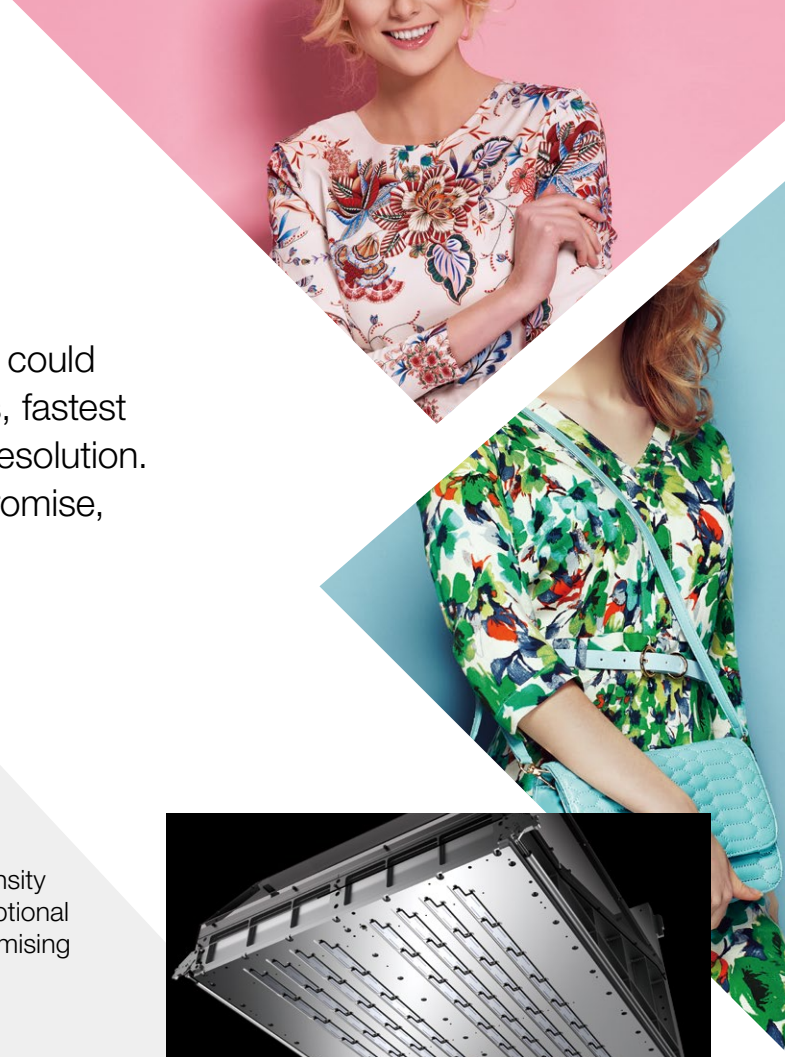
Monna Lisa flagship model
Top quality and productivity for high volume



EPSON®

Monna Lisa ML-64000: state of the art

Top notch digital fabric printer. Everything you could wish for in modern technology. Huge volumes, fastest print speeds and vivid colours in the highest resolution. If you and your clients aren't looking to compromise, Monna Lisa ML-64000 is the way to go.



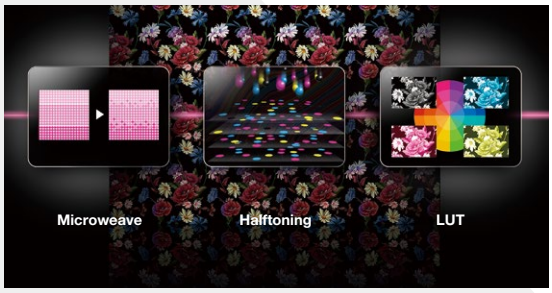
High productivity and no compromises on print quality

The ML-64000 features 64 of Epson's latest 4.73-inch high-density PrecisionCore Micro TFP printheads, allowing it to deliver exceptional productivity (774 sqm/h, 600x600 dpi, 2 pass) without compromising on quality.

ML-64000	sqm/hr
600 x 600dpi 2 pass*2	774
900 x 600dpi 3 pass*3	567

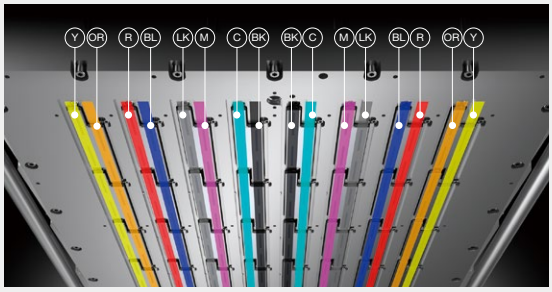
Epson precision dot technology for world-renowned image quality

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.



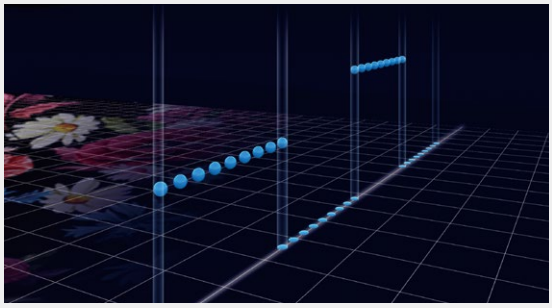
Symmetrical color alignment and accurate belt positron control technology

The ML-64000 features symmetrical color alignment for consistent color overlap order during high-speed bidirectional printing, and accurate belt position control technology for precise fabric feeding.

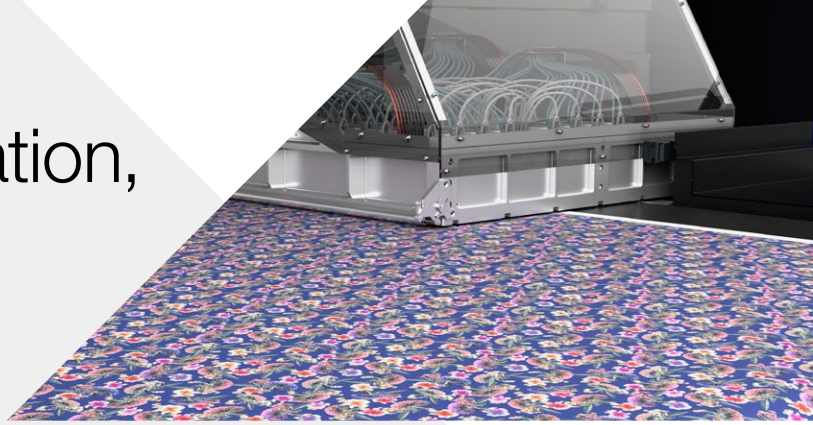


Dynamic alignment stabilizer technology for uniform dot density

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.



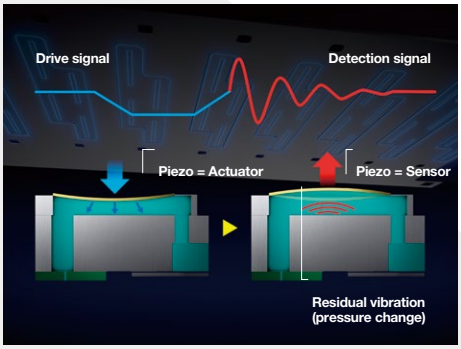
Easy and stable operation, minimal downtime



Technologies to minimize customer downtime and ensure stable operation.

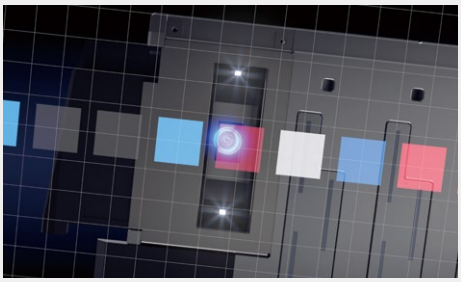
Nozzle verification technology and advanced cleaning mechanisms

Nozzle verification technology detects missing dots that indicate nozzle clogging, and adjusts ink delivery to maintain image quality and reduce printing errors. An ink mist extraction system helps reduce nozzle clogging problems.



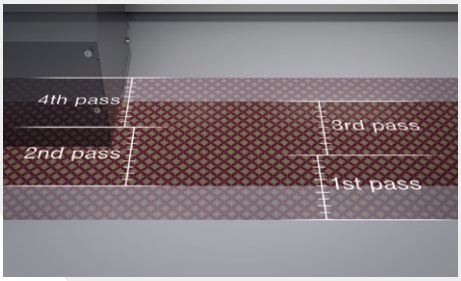
High-accuracy head alignment technology and built-in RGB camera for easy printhead replacement

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.



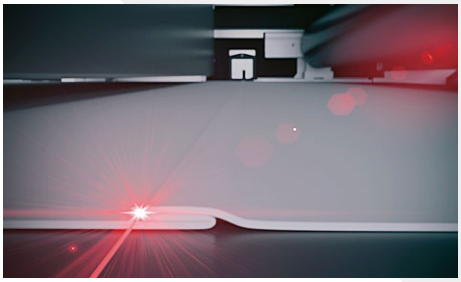
Accurate Belt Position Control technology for high-precision fabric feeding

The ML-64000 achieves high image quality with new Accurate Belt Position Control technology that automatically detects belt feeding distance to ensure highly accurate fabric feeding.



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.



Hot-swappable ink supply for uninterrupted production

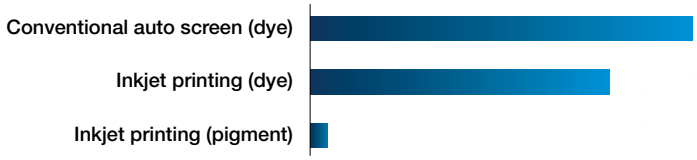
The 10-liter high-capacity ink cartridge, equipped with a sub-tank system, allows you to replace the ink without interrupting production.

Environmental benefits

Drive more sustainable textile printing with less water, less waste, and environmentally friendly inks.

Reduce water usage with pigment ink

The textile industry is responsible for approximately 20% of industrial wastewater worldwide*1 The ML-64000 using pigment ink significantly contributes to reducing industrial wastewater in comparison to conventional automatic screen printing or inkjet printing using dye-based inks.*2



Reduced water usage by water recycling unit

The optional 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-64000 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.*3

Produce on demand

It is estimated that 35% of all materials in the textile supply chain end up as waste.*4
Print just the right amount, on-demand to reduce dead stock and manage excess inventory.

Environmentally friendly ink

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, Acid and Pigment inks are GOTS approved by ECOCERT.*5

OEKO TEX® ECO PASSPORT NEP 1609 Nissenken www.oeko-tex.com

OEKO TEX® ECO PASSPORT NEP 1610 Nissenken www.oeko-tex.com

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GLOBAL ORGANIC TEXTILE STANDARD · GOTS ·

GOTS Approved Additive
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GOTS-ECOCERT-08-01219

bluesign® APPROVED

*1 World Bank, 2019 How Much Do Our Wardrobes Cost to the Environment?
*2 Fuluhashi Environmental Institute, 2024 "Report on Direct Water Input in Digital Textile Printing, November 2024"
*3 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.
*4 National Library of Medicine, USA. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9983045/
*5 Genesta RE-N Reactive inks: except one of Grey (Grey RE-N).

Rely on Epson every step of the way

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

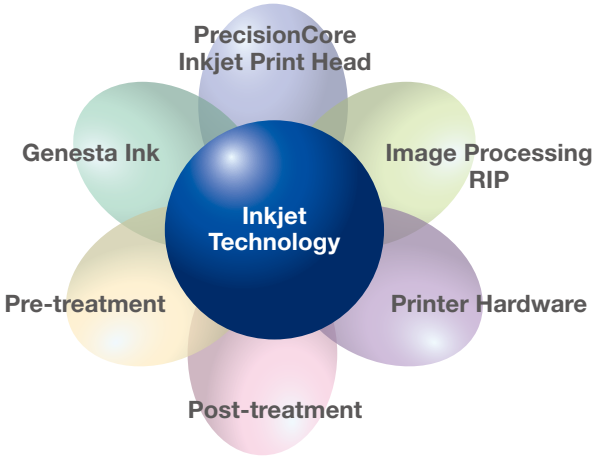
Remote monitoring platform for production printers

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*1, equipment utilization, and service information to better manage efficiency and optimize your Epson printing workflow.

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

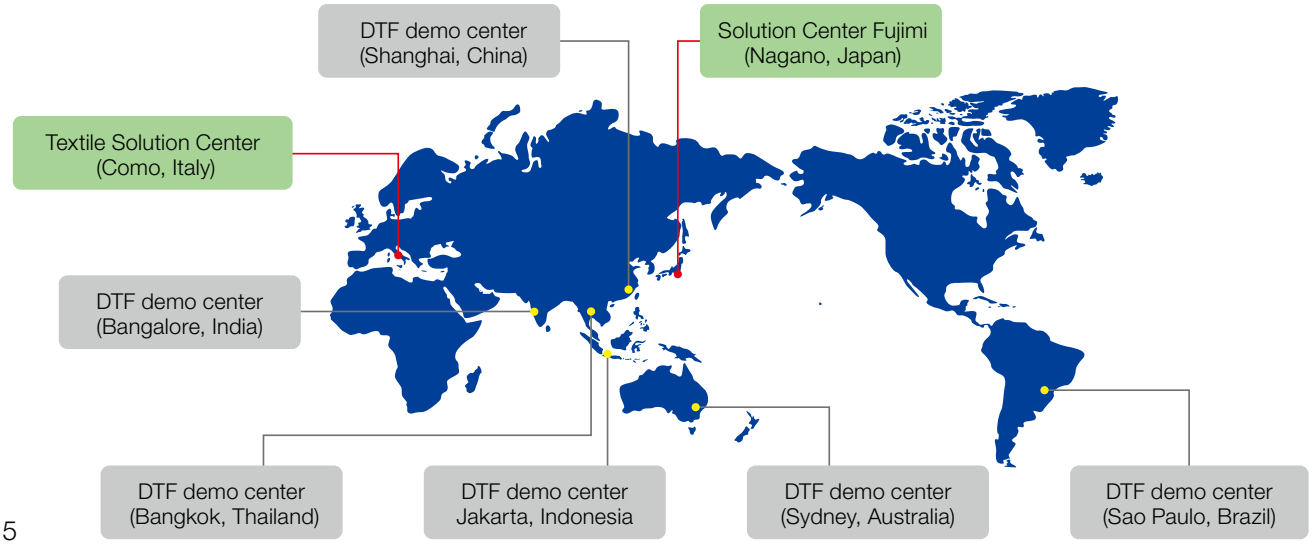
Comprehensive solutions for textile

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



Rely on local Epson around the globe

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



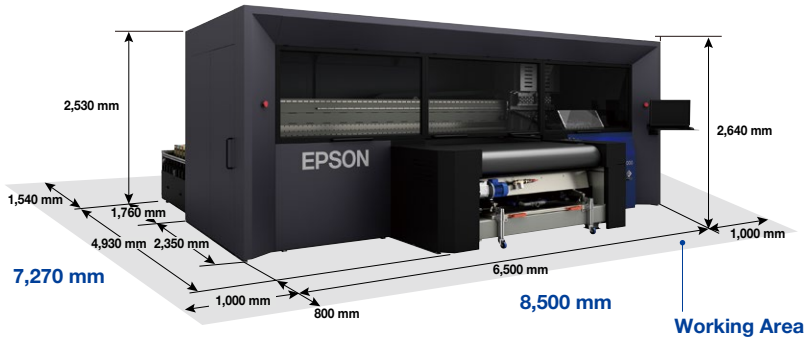
Specification ML-64000

PRINT		
Printing technology	PrecisionCore inkjet technology	
Number of printheads	64	
Number of colours	8	
Maximum print resolution	1,200 x 1,200 dpi	
Gradation process	Variable-Sized Droplet Technology	
Max print width	1,800 mm (71")	
Max print length	Unlimited	
Max fabric width	1,800 mm (71")	
Max fabric thickness	10.0 mm	
PRINT SPEED		
Square *1	Typical printing speed 1 (m²/h)	774 (600 × 600 dpi, 2 pass*2)
	Typical printing speed 2 (m²/h)	567 (900 × 600 dpi, 3 pass*3)
	Typical printing speed 1 (sq ft/hr)	8,331 (600 × 600 dpi, 2 pass*2)
	Typical printing speed 2 (sq ft/hr)	6,103 (900 × 600 dpi, 3 pass*3)
PRINT SPEED		
Linear *1	Typical printing speed 1 (lmt/h)	516 (600 × 600 dpi, 2 pass*2)
	Typical printing speed 2 (lmt/h)	378 (900 × 600 dpi, 3 pass*3)
	Typical printing speed 1 (li ft/hr)	1,693 (600 × 600 dpi, 2 pass*2)
	Typical printing speed 2 (li ft/hr)	1,240 (900 × 600 dpi, 3 pass*3)
FABRIC HANDLING		
Fabric drive	Conveyor belt with thermoplastic adhesive	
Belt washing	Automatic	
ENVIRONMENTAL CHARACTERISTICS		
Temperature	Operating: 20°C - 30°C (68°F - 86°F), Recommended: 22°C - 28°C (72°F - 82°F)	
Humidity	Operating: 40 - 60%RH (no condensation)	
ELECTRICAL		
Voltage	400V, 3 phase + Neutral + Earth, 50Hz/60Hz	
Rated current	Main unit: 30 A	
Apparent power (VA)	Main unit: 20.7 kVA (Operating)	
CERTIFICATIONS		
Safety/Electromagnetic	Brazil: NR12 EU, EFTAcountries, Turkey, UK: Machinery Directive, EMC Directive (CE/UKCA) Morocco: Safety & EMC regulation (CP) Australia, New Zealand: Australia EMC framework (RCM) Korea: MSIP regulation (KC)	
NETWORK		
Transmission speed	1000BASE-T (recommended)	

*1: 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.
*2: With 300x300dpi 4 half tone layers
*3: With 300x300dpi 6 half tone layers

Note: 1. Feeding unit is an option. Jumbo roll feeding units are available on the market.
2. Dryer is not included. Fabric drying systems are available on the market.

ML-64000 & Working Area Dimensions



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

DIMENSIONS

- **Printer**
  Printer 6,500 (W) x 4,960 (D) x 2,530 (H) mm
  (256 x 195 x 100 in)
- **Control box**
  1,600 (W) × 1,200 (D) ×2,640 (H) mm
  (63 × 47 × 104 in)
- **Ink rack (without ink)**
  1,760 (W) x 960 (D) x 840 (H) mm
  (69 × 38 × 33 in)

WEIGHT

- **Printer**
  Approx. 7,000 kg (15,432 lb)
- **Control box**
  Approx. 700 kg (1,543 lb)
- **Ink Rack**
  Approx. 300 kg (661 lb) (not including ink)

PRECISIONCORE PRINTHEAD

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