



## KEY FEATURES & USER BENEFITS

### Easy Operation

- Dual Hot-Swappable High Capacity Ink Cartridges (3L/10L)

### High Print Quality

- New PrecisionCore Micro TFP Printheads
- Epson Precision Dot Technology
- Multi-Layer Halftone Technology
- Dynamic Alignment Stabilizer (DAS) Technology
- Symmetrical Color Alignment

### Stable Operation

- Auto Nozzle Cleaning by Fabric Wiper
- Nozzle Verification Technology

### Stable Operation

- Fluff Blower System
- Ink Mist Extraction System

### Easy Operation

- 9-Inch LCD Touch Panel



- Acid, Reactive, Disperse, and Pigment Ink
- Vacuum-Packed Degassed Ink Cartridges

Epson GENESTA INK

- Epson Edge Print Textile ColorBlend

Textile Software

- High-Accuracy Head Alignment Technology (easy head replacement)
- Auto Calibration by Built-In RGB Camera
- Epson Remote Monitoring System

Minimal Downtime

- Dual Head-Strike Sensors

Stable Operation

- Accurate Belt Position Control (ABPC) Technology

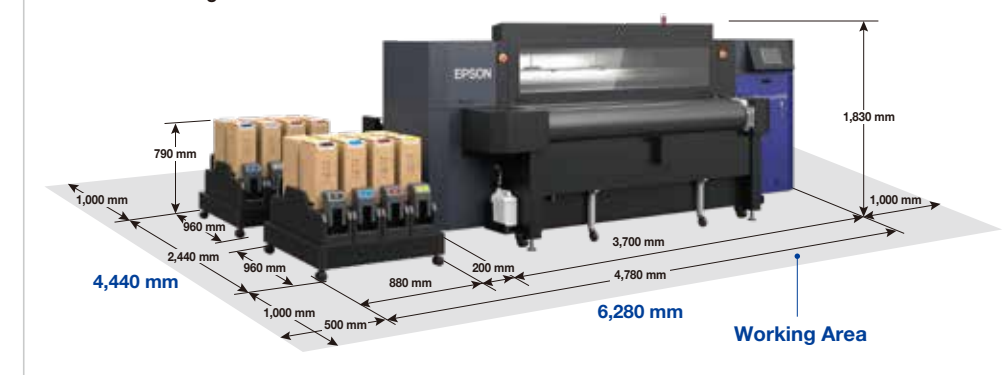
High Print Quality

## TECHNICAL SPECIFICATIONS

<b>PRINT</b>			
Printing technology	PrecisionCore inkjet technology		
Number of printheads	8		
Number of colours	8		
Maximum print resolution	1,200 x 1,200 dpi (Pigment), 1,200 x 600 dpi (Reactive, Acid, Disperse)		
Gradation process	Variable-Sized Droplet Technology		
Max print width	1,850 mm (72.8")		
Max print length	Unlimited		
Max fabric width	1,850 mm (72.8")		
Max fabric thickness	5.0 mm		
<b>PRINT SPEED</b>			
Square <sup>*)</sup>	Maximum printing speed (m <sup>2</sup> /h)	312 (Reactive/Pigment)	279 (Acid/Disperse) (300x600 dpi, 1 pass) <sup>*)</sup>
	Typical printing speed 1 (m <sup>2</sup> /h)	162 (Reactive/Pigment)	144 (Acid/Disperse) (600x600 dpi, 2 pass) <sup>*)</sup>
	Typical printing speed 2 (m <sup>2</sup> /h)	108 (Reactive/Pigment)	96 (Acid/Disperse) (900x600 dpi, 3 pass) <sup>*)</sup>
	Maximum printing speed (sq ft/hr)	3,358 (Reactive/Pigment)	3,003 (Acid/Disperse) (300x600 dpi, 1 pass) <sup>*)</sup>
	Typical printing speed 1 (sq ft/hr)	1,744 (Reactive/Pigment)	1,550 (Acid/Disperse) (600x600 dpi, 2 pass) <sup>*)</sup>
	Typical printing speed 2 (sq ft/hr)	1,163 (Reactive/Pigment)	1,033 (Acid/Disperse) (900x600 dpi, 3 pass) <sup>*)</sup>
Linear <sup>*)</sup>	Maximum printing speed (lmt/h)	208 (Reactive/Pigment)	186 (Acid/Disperse) (300x600 dpi, 1 pass) <sup>*)</sup>
	Typical printing speed 1 (lmt/h)	108 (Reactive/Pigment)	96 (Acid/Disperse) (600x600 dpi, 2 pass) <sup>*)</sup>
	Typical printing speed 2 (lmt/h)	72 (Reactive/Pigment)	64 (Acid/Disperse) (900x600 dpi, 3 pass) <sup>*)</sup>
	Maximum printing speed (lft/hr)	682 (Reactive/Pigment)	610 (Acid/Disperse) (300x600 dpi, 1 pass) <sup>*)</sup>
	Typical printing speed 1 (lft/hr)	354 (Reactive/Pigment)	315 (Acid/Disperse) (600x600 dpi, 2 pass) <sup>*)</sup>
	Typical printing speed 2 (lft/hr)	236 (Reactive/Pigment)	210 (Acid/Disperse) (900x600 dpi, 3 pass) <sup>*)</sup>
<b>FABRIC HANDLING</b>			
Fabric drive	Conveyor belt with thermoplastic adhesive		
Belt washing	Automatic		
<b>STANDARD FEEDER</b>			
Fabric roll diameter	400 mm (15.7")		
Fabric roll weight	100 kg (220 lb)		
Fabric roll core diameter	2" or 3"		
<b>ENVIRONMENTAL CHARACTERISTICS</b>			
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)		
<b>ELECTRICAL</b>			
Voltage	Main unit: 380-415 V, 3 phase + Neutral + Earth, 50Hz/60Hz		
Rated current	Main unit: 20 A		
Power consumption (Operating)	Main unit: 5.5 kw		
<b>CERTIFICATIONS</b>			
Safety	Canada: CAN/CSA-C22.2 No.301 Industrial electrical machinery,CAN/CSA C22.2 No.0, ICS-003 Class A U.S.A.: UL 2011 (Outline of Investigation for Machinery), NFPA 79 (Electrical Standard for Industrial Machinery), FOC Part15 Subpart B, Class A Mexico: NOM-019-SCFI-1998 *check HS Code Brazil: NR12 Safety in Machinery and Equipment Work EU/EFTA countries: Turkey: Machinery Directive 2006/42/EC Annex I, IEC/EN 60204-1, EN ISO12100, EN ISO11111-1, EN ISO13849-1, EN 55011, EN 61000-6-2, EN 61000-6-4 Morocco: Order No.2573-14, Order No.2574-14 Russia, Belarus, Kazakhstan: ISO 12100, ISO 13849-1, IEC/EN 60204-1, EN ISO 11111-1, EN 55011, EN 61000-6-2, EN 61000-6-4, EN 62311 Ukraine: ISO 12100, ISO 13849-1, IEC/EN 60204-1, EN ISO 11111-1, EN 55011, EN 61000-6-2, EN 61000-6-4 Australia, Newzealand: AS CISPR11 India: IS 12532(Part 1) Uzbekistan: Safety and EMC(CE), Factory Audit Jordan: Safety and EMC(CE) Saudi Arabia: Safety and EMC(CE) UAE: Safety and RoHS(CE), Factory Audit Sri Lanka: safety and EMC(CE) Korea: Korean MSIP regulation KN11, KN61000-6-2		
Electromagnetic			
<b>NETWORK</b>			
Transmission speed	USB3.0 Ethernet 1000BASE-T		

<sup>\*)</sup> 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.  
<sup>\*)</sup> At 300 x 300 dpi with 2 halftone layers  
<sup>\*)</sup> At 300 x 300 dpi with 4 halftone layers  
<sup>\*)</sup> At 300 x 300 dpi with 6 halftone layers

### ML-8000 & Working Area Dimensions



### GENESTA INK

- **Acid**  
Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Cobalt, Orange, Rubine, Fluorescent Pink, Fluorescent Flavine, AGR0SS (Ink penetration liquid)
- **Reactive**  
Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Orange, Crimson, AGR0SS (Ink penetration liquid)
- **Disperse**  
Black, Cyan, Magenta, Yellow, Grey, Red, Blue, Orange, AGR0SS (Ink penetration liquid)
- **Pigment**  
Black, Cyan, Magenta, Yellow, Grey, Red, Green, Orange
- **Ink capacity**  
10 litres, 3 litres

### DIMENSIONS

- **Printer**  
3,700 (W) x 2,690 (D) x 1,830 (H) mm  
(146 x 106 x 72 in)
- **Ink rack (with 10L ink)**  
880 (W) x 960 (D) x 790 (H) mm  
(35 x 38 x 31 in)
- **Printer**  
Approx. 2,150 kg (4,740 lb)
- **Ink rack**  
Approx. 110 kg (243 lb, not including ink)



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ML-8000

# Introducing a New Standard in Textile Printing Image Quality



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# The next-generation digital textile printer with the features you've been waiting for

The ML-8000 packs the power and performance of the latest world-class Epson inkjet printing and manufacturing technologies into a single package. Offering unprecedented performance and usability, it is a next-generation digital textile printer that will take your production capabilities to a new level.

## High Productivity

### PrecisionCore Micro TFP printheads optimized for maximum productivity

The ML-8000 is equipped with eight newly developed 4.73-inch high-density PrecisionCore Micro TFP printheads that achieve higher productivity with a maximum ink droplet size 1.4 times larger than our existing printheads. This, together with exceptionally high dot placement accuracy and advanced image processing technology, enables high-quality, high-throughput printing of 162 m<sup>2</sup>/h at 600 x 600 dpi, 2 pass\*2.

Print mode	Speed
Maximum Printing Speed (300 x 600 dpi, 1 pass)*1	312m <sup>2</sup> /h
Typical Printing Speed 1 (600 x 600 dpi, 2 pass)*2	162m <sup>2</sup> /h
Typical Printing Speed 2 (900 x 600 dpi, 3 pass)*3	108m <sup>2</sup> /h

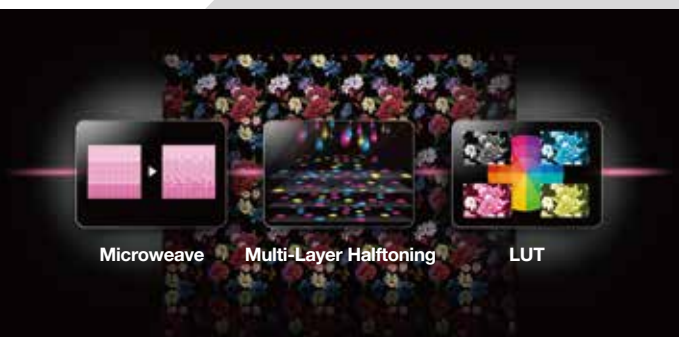
\*1 At 300 x 300 dpi with 2 halftone layers  
\*2 At 300 x 300 dpi with 4 halftone layers  
\*3 At 300 x 300 dpi with 6 halftone layers



## High Image Quality

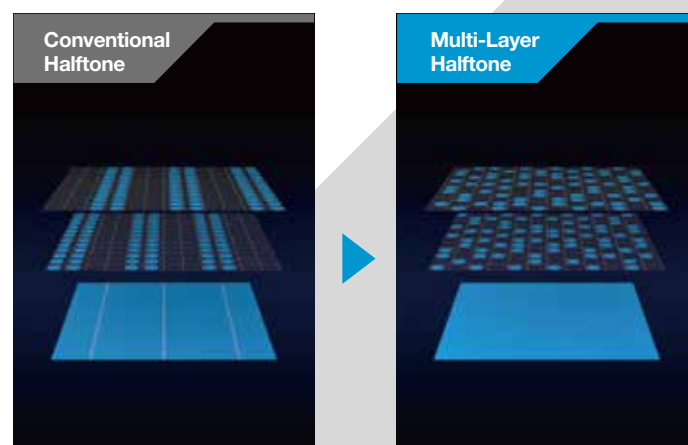
### Epson precision dot technology for world-renowned image quality

Epson precision dot technology, refined over many years of inkjet printer development, underlies the ML-8000's superior image quality. In addition, our exclusive Microweave, multi-layer halftoning, and LUT technologies work together to reduce banding, graininess, and image quality degradation caused by dot placement errors.



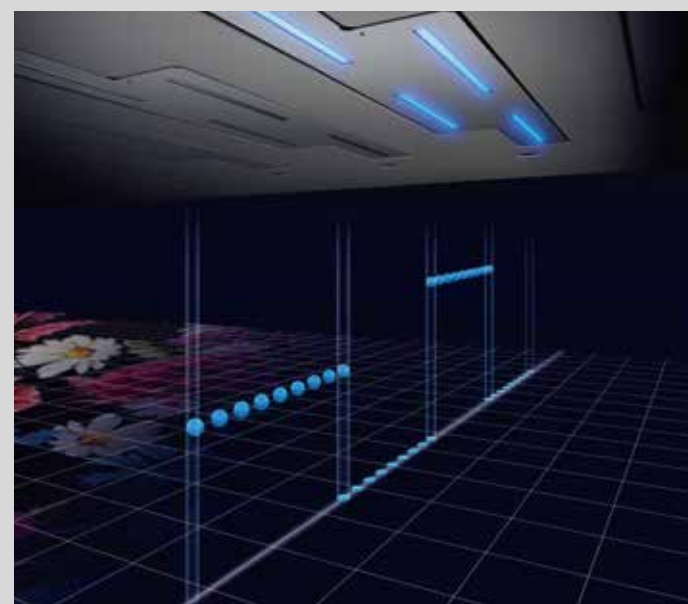
### Multi-layer halftoning for superior image quality

The ML-8000 uses advanced new Multi-Layer Halftone Technology (MLHT) to achieve higher stability and image quality than ever before. By randomizing the halftone dot pattern printed on each layer, MLHT reduces image degradation caused by dot misalignment.



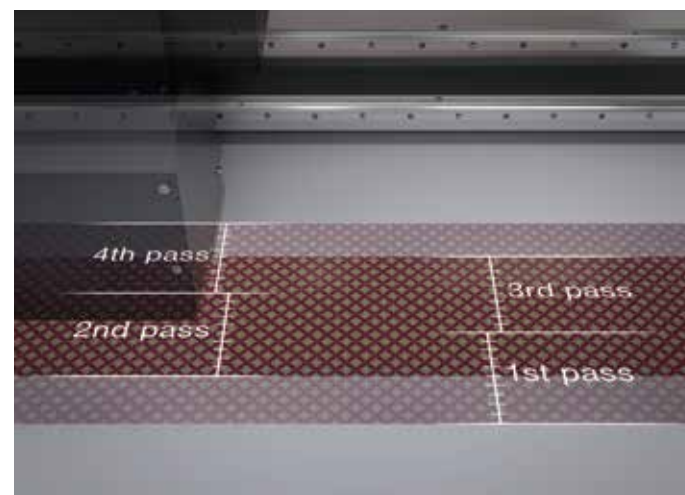
### Dynamic Alignment Stabilizer (DAS) technology for uniform dot density

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.



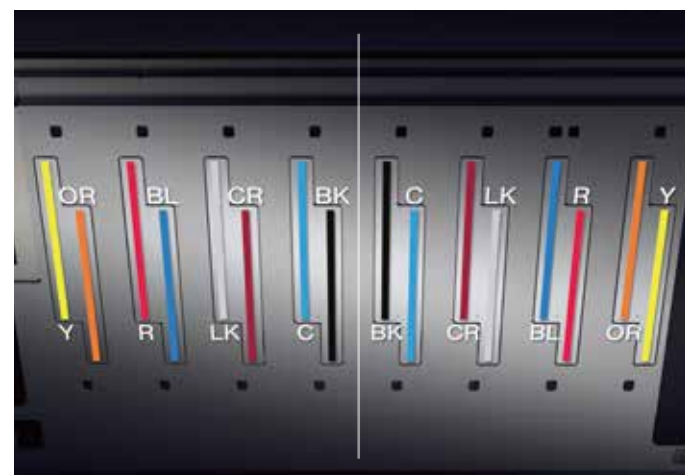
### Accurate Belt Position Control (ABPC) technology for high-precision fabric feeding

High image quality also requires precise fabric feeding. The ML-8000 achieves this with new Accurate Belt Position Control (ABPC) technology that automatically detects belt feeding distance to ensure highly accurate fabric feeding.



### Symmetrical color alignment for high bidirectional printing quality

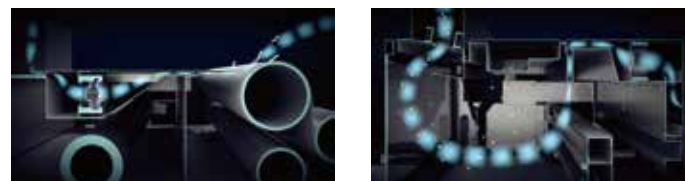
Symmetrical color alignment maintains consistent color overlap order during high-speed bidirectional low-pass printing for uniform image quality.



## Stable Operation

### Advanced cleaning mechanisms for reduced nozzle clogging

To help reduce the chance of nozzle clogging, a fluff blower system removes fluff from the fabric surface before it enters the printing area. In addition, a powerful, dual-fan, ink mist extraction system helps prevent ink mist from adhering to the surface of the nozzles.

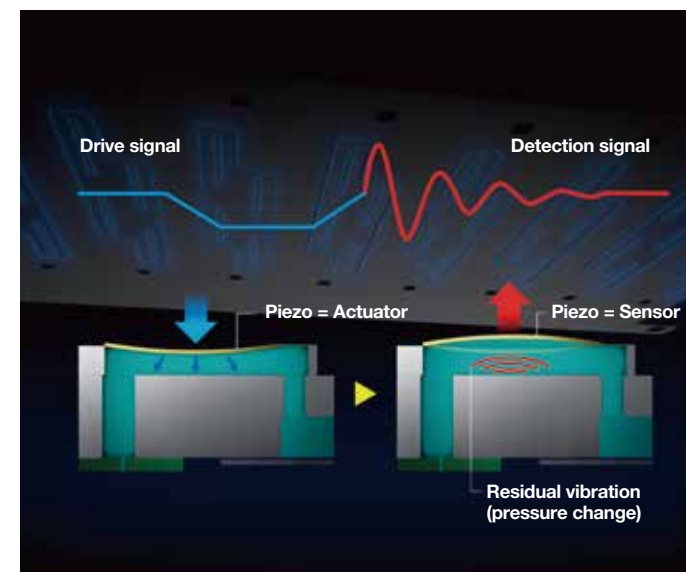


Fluff blower system

Ink mist extraction system

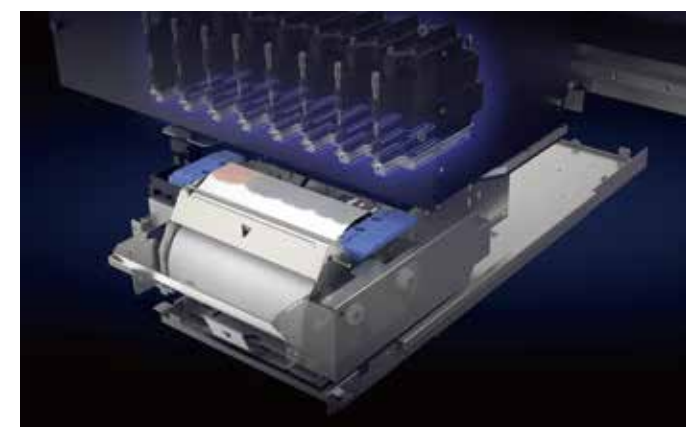
### Nozzle Verification Technology for reduced printing errors

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



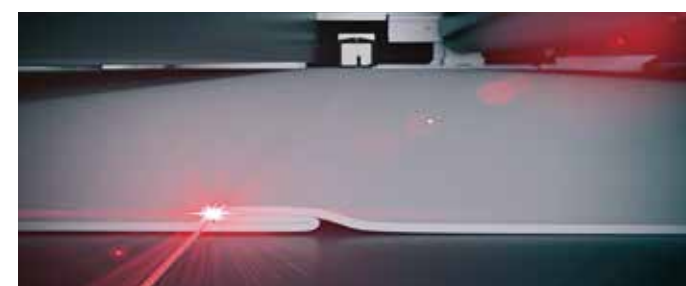
### Auto nozzle cleaning by fabric wiper reduces daily manual maintenance work

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



### 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.



## Minimal Downtime

### Automatic calibration by RGB camera minimizes printing interruptions

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.

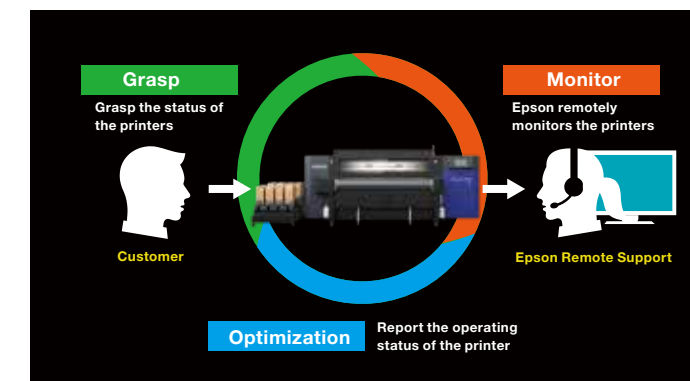


### High-accuracy head alignment technology for easy printhead replacement

High-precision positioning pins and holes on the printhead and carriage enable users to replace printheads quickly and easily. Thanks to automatic calibration by the built-in RGB camera, printhead replacement and adjustments can be completed easily.

### Epson Cloud Solution PORT

Epson's cloud solution solves problems at production sites where ML-8000 is used and improves operational efficiency.



## Easy Operation

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

In addition to displaying 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.



### Hot-swappable, high-capacity ink supply for uninterrupted production

Dual 10-litre or 3-litre 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.



## Software for Digital Textile Printing

### Epson Edge Print Textile for easy, high-quality printing

Our original RIP software, Epson Edge Print Textile, 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 ML-8000 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 Textile. ColorBlend lets you 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.



## Epson Textile Solution Centers

### Full-service support at global Epson Textile Solution Centers

Experts at Epson Textile 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 process.