TECHNICAL SPECIFICATIONS

		ML-32000	ML-16000
PRINT	Printing Technology	PrecisionCore™ inkjet Technology	
	Number of Printheads	32	16
	Number of Colours	8	8
	Maximum Print Resolution	1,200 x 1,200 dpi	
	Gradation Process	Variable-sized Droplet Technology	
	Max Print Width	180 cm (71")	
	Max Print Length	Unlimited	
	Max Fabric Width	180 cm (71")	
	Max Fabric Thickness	1 cm (0.4")	
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 L	10 L
PRINT SPEED Square*1	Maximum Printing Speed (m^2/h)	697 (300 × 600 dpi, 1-pass)	417 (300 × 600 dpi, 1-pass)
	Typical Printing Speed 1 (m^2/h	423 (600 × 600 dpi, 2-pass)	236 (600 × 600 dpi, 2-pass)
	Typical Printing Speed 2 (m^2/h)	305 (900 × 600 dpi, 3-pass)	158 (900 × 600 dpi, 3-pass)
	Maximum Printing Speed (sq ft/hr)	7,502 (300 × 600 dpi, 1-pass)	4,489 (300 × 600 dpi, 1-pass)
	Typical Printing Speed 1 (sq ft/hr)	4,553 (600 × 600 dpi, 2-pass)	2,540 (600 × 600 dpi, 2-pass)
	Typical Printing Speed 2 (sq ft/hr)	3,283 (900 × 600 dpi, 3-pass)	1,701 (900 × 600 dpi, 3-pass)
PRINT SPEED Linear*1	Maximum Printing Speed (lmt/h)	465 (300 × 600 dpi, 1-pass)	278 (300 × 600 dpi, 1-pass)
	Typical Printing Speed 1 (lmt/h)	282 (600 × 600 dpi, 2-pass)	157 (600 × 600 dpi, 2-pass)
	Typical Printing speed 2 (lmt/h)	203 (900 × 600 dpi, 3-pass)	105 (900 × 600 dpi, 3-pass)
	Maximum printing speed (li ft/hr)	1,524 (300 × 600 dpi, 1-pass)	912 (300 × 600 dpi, 1-pass)
	Typical printing speed 1 (li ft/hr)	925 (600 × 600 dpi, 2-pass)	516 (600 × 600 dpi, 2-pass)
	Typical printing speed 2 (li ft/hr)	667 (900 × 600 dpi, 3-pass)	346 (900 × 600 dpi, 3-pass)
FABRIC HANDLING	Fabric Drive	Conveyor belt with adhesive	
	Belt Washing	Automatic	
STANDARD FEEDER	Fabric Roll Diameter	30 cm (11.8")	
	Fabric Roll Weight	100 kg (220 lb)	
	Fabric Roll Core Diameter	5.08 cm (2") or 7.62 cm (3")	
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)	
DIMENSIONS	Printer	4,610 (W) x 2,500 (D) x 2,070 (H) mm (181 x 98 x 81")	4,610 (W) x 2,500 (D) x 2,070 (H) mm (181 x 98 x 81")
	Control Box	660 (W) x 1,500 (D) x 2,290 (H) mm (26 x 59 x 90")	660 (W) x 1,500 (D) x 2,290 (H) mm (26 x 59 x 90")
	Ink Rack	Internal Ink Rack	Internal Ink Rack
WEIGHT	Printer	Approx. 3,900 kg (8,598 lb)	Approx. 3,900 kg (8,598 lb)
	Control box	Approx. 400 kg (882 lb)	Approx. 400 kg (882 lb)
	Ink Rack	Approx. 240 kg (529 lb)	Approx. 240 kg (529 lb)
ELECTRICAL	Voltage	Main unit: 400 V, 3 Phase + Neutral + Earth, 50 Hz / 60 Hz	
		Main unit: 30 A	Main unit: 30 A
	Apparent Power (VA)	Main unit: 20.7 kVA (Operating)	
NETWORK	Transmission Speed	100BASE-TX or more (recommended)	

*1 Printing width: 150 cm, Printing mode: bi-directional. Printing speeds vary depending on such factors as image printed, firmware version, operating state of PC and print settings.

ML-16000 / ML-32000 & Working Area Dimensions

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Product information is subject to change without prior notice. Pictures in this document are shown for illustrative purposes only.

Information correct as of April 2025.

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PRECISIONCORE PRINTHEAD

EPSON

ML-32000/ML-16000

The benchmark in textile printing image quality

EPSON

Excellence and Productivity in Digital Textile Printing

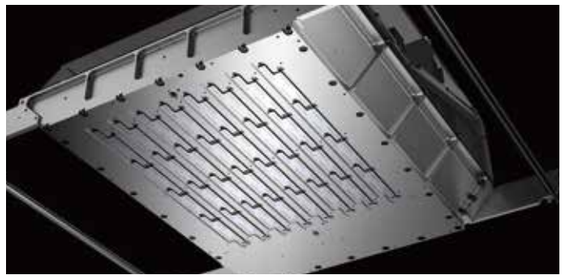
The Monna Lisa is an industry-leading digital textile printer that represents the culmination of our expertise in ink and printhead development, image processing, and pre- and post-fabric treatment. The ML-32000 / ML-16000 and Total Textile Solution deliver the finest print quality with the highest versatility and the highest level of customer satisfaction.

High Productivity

PrecisionCore™ MicroTFP® Printheads Optimised for Maximum Productivity

Powering the Monna Lisa are PrecisionCore™ MicroTFP® printheads. The ML-32000 is equipped with 32 printheads and the ML-16000 is equipped with 16 printheads that achieve higher productivity. This, together with exceptionally high dot placement accuracy and advanced image processing technology, enables high quality and high throughput.

	ML-32000	ML-16000
Maximum printing speed (300 x 600 dpi, 1 pass)	697 m²/h	417 m²/h
Typical printing speed (600 x 600 dpi, 2 pass)	423 m²/h	236 m²/h

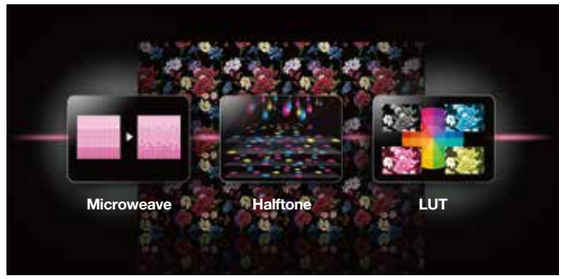


ML-32000 printheads

High Image Quality

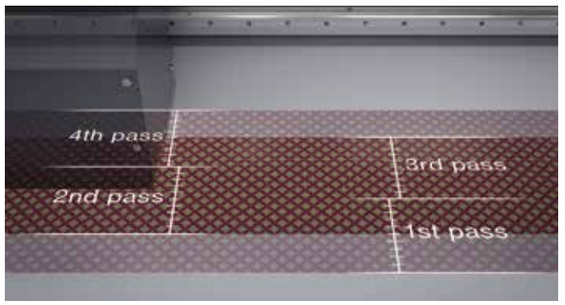
Epson Precision Dot Technology for World-renowned Image Quality

Epson Precision Dot technology, refined over many years of inkjet printer development, underlies superior image quality. In addition, our exclusive Microweave, halftoning, and LUT technologies work together to reduce banding, graininess, and image quality degradation caused by dot placement errors.



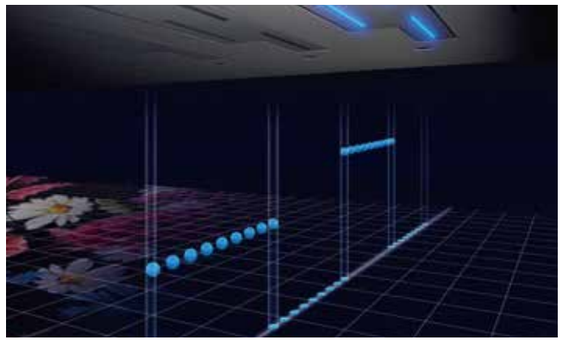
Accurate Belt Position Control (ABPC) Technology for High-precision Fabric Feeding

The ML-32000 achieves high image quality with new Accurate Belt Position Control (ABPC) technology that automatically detects belt-feeding distance to ensure highly accurate fabric feeding.



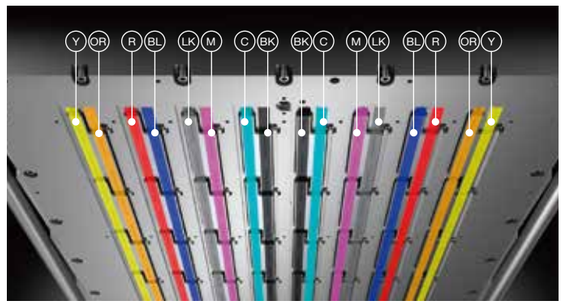
Dynamic Alignment Stabiliser (DAS) Technology for Uniform Dot Density

Dynamic Alignment Stabiliser (DAS) technology ensures stable print quality by controlling waveforms on the printhead chip to achieve higher dot placement accuracy and more uniform dot density on each pass.



Symmetrical Colour Alignment for High Bi-directional Printing Quality

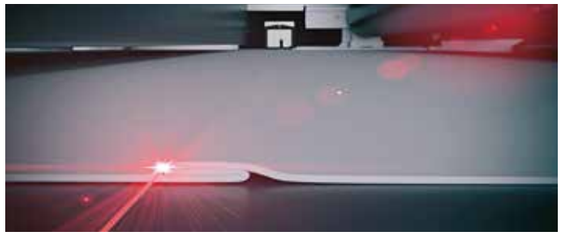
Symmetrical colour alignment maintains consistent colour overlap order during high-speed bi-directional low-pass printing for uniform image quality.



High Reliability

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.



High-accuracy Head Alignment Technology for Highly Accurate Dot Placement

High-precision positioning pins and holes on the printhead and carriage enable accurate dot placement for high print quality.

High-capacity Ink Supply for Uninterrupted Production

Large capacity vacuum-packed degassed ink cartridges can be loaded for each colour, and there is no need to worry about running out of ink halfway through a job because empty cartridges can be replaced while printing is in progress.

Flexibility

8+8 Colour Channel Configurations

The ML-32000 offers a choice of colour channel configurations to suit your production needs. The 8+8 colour version can be loaded with two different types of ink simultaneously, to increase the fabric types that can be printed, and is of particular value when working with limited space or a tight budget.

The Printing widths of 240 CM & 340 CM are also available.

GENESTA Inks

Eco-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 recognised standards for eco-friendly textile printing. In addition, our Acid ink is bluesign® approved, and our Reactive and Pigment inks are GOTS approved by ECOCERT.

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 maximise the performance of PrecisionCore™ MicroTFP® printheads and GENESTA inks. It features an intuitive interface for easy, 3-step, left-to-right operation, as well as step-and-repeat, hot folders, colour replacement for matching spot colours, and other convenient features. In addition, the ML-32000 / ML-16000 are supported by other major textile RIP software, giving you the flexibility to use the RIP solution of your choice.

ColorBlend Software for Colourways and Ink-penetration Control

ColorBlend is a pre-processing software for Epson Edge Print Textile. ColorBlend lets you create colour variations (colourways) from channel-separated images (PSD, PSB, etc.), control ink penetration to achieve visual equivalence on both sides of fabrics, generate ICC profiles, and perform other pre-processing tasks.

Epson Textile Solution Centers

Full-service support at global Epson Textile Solution Centres

Experts at Epson Textile Solution Centres 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.