ML-16000

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-16000 and Total Textile Solution deliver the finest print quality with lower investment and the highest level of customer satisfaction.

High print quality and productivity
Epson precision dot technologies reduce banding and graininess, and new stacked printing that randomises the halftone dot pattern to reduce image degradation caused by dot misalignment. Dynamic Alignment Stabiliser (DAS) technology also ensures stable print quality by controlling waveforms on printhead chip for higher dot placement accuracy and more uniform dot density on each pass. The ML-16000 also features symmetrical colour alignment for consistent colour overlap order during high-speed bidirectional printing, and Accurate Belt Position Control (ABPC) technology for precise fabric feeding. The result is optimal quality and speed, with superb reproduction of colour gradations, fine details, and complex geometric patterns.

Flexibility to meet any printing need
Epson inkjet printing technology is noted for its adaptability to a wide range of media, making it ideal for direct-to-fabric printing. The ML-16000 can meet a variety of different production needs and applications.
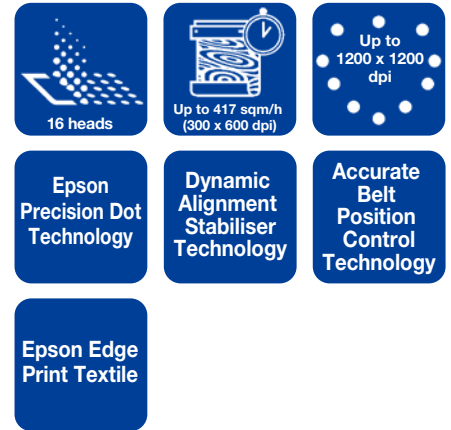
Environmentally friendly GENESTA Ink
Epson GENESTA inks are available in Acid, Reactive, Disperse, and Pigment formulations, and are ECO PASSPORT certified to meet globally recognised standards for environmentally friendly textile printing. Our Acid ink is also bluesign® approved, and our Reactive and Pigment inks are GOTS approved by ECOCERT. The vacuum packed degassed ink comes in hot-swappable 10-litre or 3-litre high-capacity ink cartridges that allow uninterrupted production.

Epson Edge Print Textile (RIP software)
Our original RIP software, Epson Edge Print Textile, has an intuitive interface for easy to use as well as step & repeat, hot folders, colour replacement for matching spot colours, and other convenient features. If you prefer to use a different RIP software, the ML-16000 can flexibly support that too.

Feature icons
- 16 heads
- Up to 417 sqm/h (300 x 600 dpi)
- Up to 1200 x 1200 dpi
- Epson Precision Dot Technology
- Dynamic Alignment Stabiliser Technology
- Accurate Belt Position Control Technology
- Epson Edge Print Textile

Key features

Productivity
Maximum printing speed
417 sqm/h (300 x 600 dpi, 1 pass)
Typical printing speed
236 sqm/h (600 x 600 dpi, 2 pass)

High print quality
16 PrecisionCore Micro TFP printheads
Epson precision dot technology
Dynamic Alignment Stabiliser (DAS) Technology
Symmetrical colour alignment
Accurate Belt Position Control (ABPC) Technology

Ink types
Acid, Reactive, Disperse, and Pigment inks
(10L or 3L)

Extensive software compatibility
Supports Epson Edge Print Textile as well as other RIP software

EPSON
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TECHNICAL SPECIFICATIONS

PRINT

Printing technology	PrecisionCore inkjet technology
Number of printheads	16
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 mm

PRINT SPEED
Square *1

Maximum printing speed (m²/h)	417 (300 × 600 dpi, 1 pass)
Typical printing speed 1 (m²/h)	236 (600 × 600 dpi, 2 pass)
Typical printing speed 2 (m²/h)	158 (900 × 600 dpi, 3 pass)
Maximum printing speed (sq ft/hr)	4,489 (300 × 600 dpi, 1 pass)
Typical printing speed 1 (sq ft/hr)	2,540 (600 × 600 dpi, 2 pass)
Typical printing speed 2 (sq ft/hr)	1,701 (900 × 600 dpi, 3 pass)

PRINT SPEED
Linear *1

Maximum printing speed (lmt/h)	278 (300 × 600 dpi, 1 pass)
Typical printing speed 1 (lmt/h)	157 (600 × 600 dpi, 2 pass)
Typical printing speed 2 (lmt/h)	105 (900 × 600 dpi, 3 pass)
Maximum printing speed (li ft/hr)	912 (300 × 600 dpi, 1 pass)
Typical printing speed 1 (li ft/hr)	516 (600 × 600 dpi, 2 pass)
Typical printing speed 2 (li ft/hr)	346 (900 × 600 dpi, 3 pass)

FABRIC HANDLING

Fabric drive	Conveyor belt with adhesive
Belt washing	Automatic

STANDARD FEEDER

Fabric roll diameter	300 mm (11.8")
Fabric roll weight	100 kg (220 lb)
Fabric roll core diameter	2" or 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)

ELECTRICAL

Voltage	Main unit: 400V, 3 phase + Neutral + Earth, 50Hz/60Hz
Rated current	Main unit: 30A
Apparent Power (VA)	Main unit: 20.7kVA (Operating)

CERTIFICATIONS

Safety	EU, EFTAcountries, Turkey: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2 Morocco: Order No.2573-14, Order No.2574-14 Rusia, Belarus, Kazakhstan: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2, EN 62311 Ukraine: EN 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2 Jordan: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2 Serbia: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2

NETWORK

Transmission speed	100BASE-TX or more (recommended)

* 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.

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, 3 litres

DIMENSIONS

- Printer
  4,610 (W) x 2,500 (D) x 2,070 (H) mm
  (181 x 98 x 81 in)

- Control box
  660 (W) x 1,500 (D) x 2,290 (H) mm
  (26 x 59 x 90 in)

WEIGHT

- Printer
  Approx. 3,900 kg (8,598 lb)

- Control box
  Approx. 400 kg (882 lb)

- Ink Rack
  Approx. 240 kg (529 lb) (not including ink)

ML-16000 & Working Area Dimensions

2,070mm · 1,700mm · 2,500mm · 1,500mm · 1,200mm · 4,610mm · 1,006mm · 984mm · 2,290mm · 1,700mm
5,400 mm · 8,110 mm · Working Area

PRECISIONCORE
PRINTHEAD

EPSON®