

# ML-24000

## Datasheet



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-24000 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-24000 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.

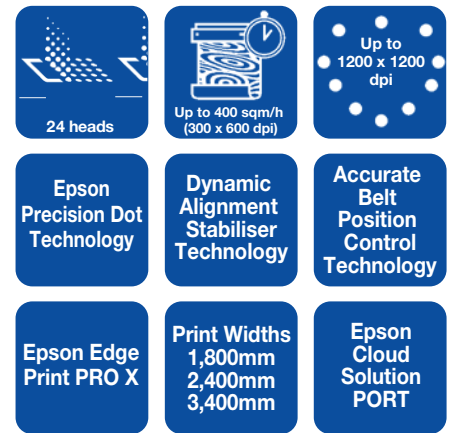
### Flexibility to meet any printing need

Epson inkjet printing technology is noted for its adaptability to a wide range of media, making it ideal for direct-to-fabric printing. ML-24000 is equipped with 24 Epson PrecisionCore printheads and 12 colours. It's highly flexible and designed to help achieve the compliance standards required for the quality, safety and sustainability certifications that are essential today in the textile market.

### 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, Acid and Pigment inks are GOTS approved by ECOCERT.\* The vacuum packed degassed ink comes in hot-swappable 10-litre high-capacity ink cartridges that allow uninterrupted production.

\*Genesta RE-N Reactive inks: except one of Grey (Grey RE-N), Genesta AC Acid inks: except Black AC-N / Grey AC-N



### Key features

#### Productivity

Maximum printing speed:  
400 sqm/h (300 × 600 dpi, 1 pass)  
Typical printing speed:  
228 sqm/h (600 × 600 dpi, 2 pass)

#### High print quality

24 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 and Reactive inks (10L)

#### Printer widths

4,610 (W) x 3,700 (D) x 2,070 (H) mm  
(181 x 98 x 81 in)

## TECHNICAL SPECIFICATIONS

### PRINT

Printing technology	PrecisionCore inkjet technology
Number of printheads	24
Number of colours	12
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	ML-24000 : 1,800 mm (71")
Max fabric width	ML-24000 : 1,800 mm (71")
Max fabric thickness	10 mm

### PRINT SPEED\*2

Maximum printing speed (m <sup>2</sup> /h)	400 (300 x 600 dpi, 1 pass)
Typical printing speed (m <sup>2</sup> /h)	228 (600 x 600 dpi, 2 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*2
Apparent Power (VA)	Main unit: 20.7kVA (Operating)*2

### CERTIFICATIONS\*2

Safety	EU, EFTA countries, 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 Russia, 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)
--------------------	----------------------------------

\*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.

### 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, Grey RE-G, ACROSS (Ink penetration liquid)
- **Ink capacity**  
10 litres

### DIMENSIONS

- **Printer**  
ML-24000 : 4,610 (W) x 3,700 (D) x 2,070 (H) mm  
(181 x 98 x 81 in)
- **Control box**  
ML-24000 : 660 (W) x 1,500 (D) x 2,290 (H) mm  
(26 x 59 x 90 in)

### WEIGHT

- **Printer**  
ML-24000 : Approx. 3,900 kg (8,598 lb)
- **Control box**  
Approx. 400 kg (882 lb)
- **Ink Rack**  
Approx. 350 kg (529 lb) (not including ink)