# ML-16000

**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 PRO X**

**Print Widths 1,800mm 2,400mm 3,400mm**

**Epson Cloud Solution PORT**

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.
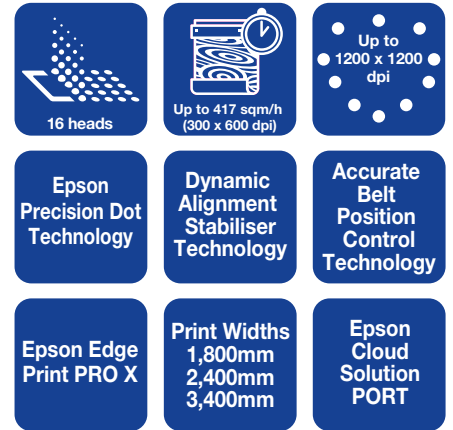
## Environmentally friendly GENESTA Ink
Epson GENESTA inks are available in Acid, Reactive, Disperse, and Pigment formulations, and are ECO PASSPORT certified to meet globally recognised standards for environmentally friendly textile printing. Our Acid ink is also bluesign® approved, and our Reactive, 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.

## Epson Edge Print PRO X (RIP software)
Our original RIP software, Epson Edge Print PRO X, 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.

## 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)

**Extensive software compatibility**
Supports Epson Edge Print PRO X as well as other RIP software

**Printer widths**
1,800 / 2,400 / 3,400 mm (71 / 94 / 133 in)

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

**EPSON®**

# 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 | ML-16000 : 1,800 mm (71") - ML-16000-240 : 2,400 mm (94") - ML-16000-340 : 3,400 mm (133") |
| Max fabric width | ML-16000 : 1,800 mm (71") - ML-16000-240 : 2,400 mm (94") - ML-16000-340 : 3,400 mm (133") |
| Max fabric thickness | 10 mm |

## PRINT SPEED*²
### 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*²
### 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" (ML-16000-340 : 3" only) |

## 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, EFTAcountries, Turkey: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2<br>Morocco: Order No.2573-14, Order No.2574-14<br>Rusia, Belarus, Kazakhstan: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2, EN 62311<br>Ukraine: EN 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2<br>Jordan: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2<br>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.
*2 Please contact Epson for the specifications of ML-16000-240 and ML-16000-340.

### 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**
  ML-16000 : 4,610 (W) x 2,500 (D) x 2,070 (H) mm (181 x 98 x 81 in)
  ML-16000-240 : 5,260 (W) x 2,490 (D) x 1,950 (H) mm (207 x 98 x 77 in)
  ML-16000-340 : 6,560 (W) x 2,500 (D) x 1,940 (H) mm (258 x 98 x 76 in)

- **Control box**
  ML-16000 : 660 (W) x 1,500 (D) x 2,290 (H) mm (26 x 59 x 90 in)
  ML-16000-240 / ML-16000-340 : 660 (W) x 1,500 (D) x 2,270 (H) mm (26 x 59 x 89 in)

### WEIGHT

- **Printer**
  ML-16000 : Approx. 3,900 kg (8,598 lb)
  ML-16000-240 : Approx. 4,300 kg (9,480 lb)
  ML-16000-340 : Approx 6,000 kg (13,228 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
2,290mm
1,700mm
1,700mm
2,500mm
4,610mm
1,006mm
984mm
5,400 mm
1,500mm
1,200mm
8,110 mm
**Working Area**

---

PRECISIONCORE
PRINTHEAD

EPSON®