

ML-16000JQ



ML-16000JQ is a new addition to the industry-leading Monna Lisa digital textile printer series. High-precision pattern matching technology enables printing on specific locations on textured fabrics, such as jacquard, embroidery, lace, and double-sided prints, to produce value added textile products with creative designs. Differentiate your business in the highly competitive textile market.

Pattern matching technology

The ML-16000JQ can produce high value-added textile products with creative designs with no colour restrictions to meet market demand for short run production, which is also a limit with conventional machine. The ML-16000JQ is equipped with a camera unit that recognizes fabric patterns in real time, detects design/pattern position, changes size, and generates print data. Our pattern matching technology allows to print on specific locations on textured fabrics such as jacquard, embroidery, lace, as well as the ability to create double-sided prints.

High productivity 8-colour direct to fabric printer

The ML-16000JQ is also capable of printing as a standard ML-16000, providing a high degree of flexibility. The Monna Lisa is an industry-leading digital textile printer that represents the peak of Epson's expertise in ink chemistry, printhead development, image processing, and pre and post fabric treatment. The ML-16000JQ plus our total textile solution deliver the finest print quality with the highest versatility and level of customer satisfaction.

High print quality

Epson's Precision Dot technologies include three proprietary technologies, "microweave," "halftone module," and "LUT," which have been cultivated over many years of inkjet technology, enable high-quality printing with less graininess and banding. The ML-16000JQ features symmetrical color alignment (mirroring) for consistent overlap order during high-speed bidirectional printing, and accurate belt position control technology for precise fabric feeding. The result is optimal quality and speed, with superb reproduction of colour gradations, fine details, and complex geometric patterns.

Environmentally friendly inks to meet every need

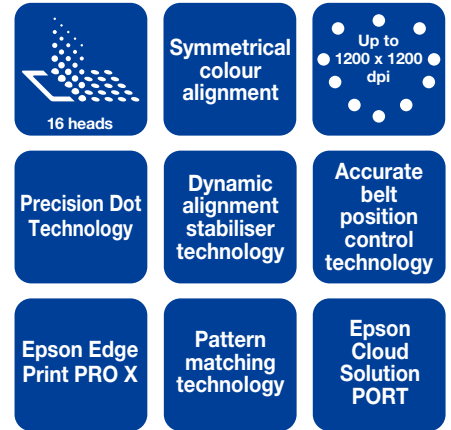
Epson's GENESTA inks are available in Acid, Reactive, Disperse, and Pigment formulations. GENESTA inks are ECO PASSPORT certified to meet international standards for environmentally friendly textile printing. Our Acid ink is also bluesign® approved, and our Reactive, Acid and Pigment inks are GOTS approved by ECOCERT.* The vacuum packed degassed ink comes in hot-swappable 10-litre high-capacity ink cartridges that allow non-stop production.

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

Local Epson service teams support customer success

Epson has sales offices, demo/solution centers and local service teams around the world to support its customers.

Datasheet



Key features

Pattern matching technology

Print on specific locations such as jacquard, embroidery, lace, and double-sided prints

Productivity

Pattern matching technology
69 sqm/h (900x600dpi 4+ pass)
Normal 8 colour printing
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
Precision Dot technology
Dynamic alignment stabiliser technology
Symmetrical colour alignment
Accurate belt position control technology

Ink types

Acid, Reactive, Disperse, and Pigment inks (10L)

Textile software

Bundle:
JacquardOne (Pattern match printing)
Option :
Epson Edge Print PRO X2 as well as other RIP

Print widths

1,800 mm (71 in)



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 | Unlimited |
| Max fabric width | 1,800 mm (71") |
| Max fabric thickness | Up to 10 mm |

PRINT SPEED*

| | | |
|--------------------------|---------------------|-----------------------------|
| Pattern match printing | (m ² /h) | 69 (900x600dpi 4+ pass) |
| Normal 8 colour printing | | |
| Maximum printing speed | (m ² /h) | 417 (300x600 dpi, 1 pass) |
| Typical printing speed 1 | (m ² /h) | 236 (600x600 dpi, 2 pass) |
| Typical printing speed 2 | (m ² /h) | 158 (900x600 dpi, 3 pass) |
| Pattern match printing | (sq ft/hr) | 743 (900x600dpi 4+ pass) |
| Normal 8 colour printing | | |
| Maximum printing speed | (sq ft/hr) | 4,489 (300x600 dpi, 1 pass) |
| Typical printing speed 1 | (sq ft/hr) | 2,540 (600x600 dpi, 2 pass) |
| Typical printing speed 2 | (sq ft/hr) | 1,701 (900x600 dpi, 3 pass) |
| Pattern match printing | (lmt/h) | 46 (900x600dpi 4+ pass) |
| Normal 8 colour printing | | |
| Maximum printing speed | (lmt/h) | 278 (300x600 dpi, 1 pass) |
| Typical printing speed 1 | (lmt/h) | 157 (600x600 dpi, 2 pass) |
| Typical printing speed 2 | (lmt/h) | 105 (900x600 dpi, 3 pass) |
| Pattern match printing | (li ft/hr) | 151 (900x600dpi 4+ pass) |
| Normal 8 colour printing | | |
| Maximum printing speed | (li ft/hr) | 912 (300x600 dpi, 1 pass) |
| Typical printing speed 1 | (li ft/hr) | 516 (600x600 dpi, 2 pass) |
| Typical printing speed 2 | (li ft/hr) | 346 (900x600 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/Electromagnetic | EU, EFTA countries, Turkey, UK: Machinery Directive, EMC Directive (CE/UKCA) Morocco: Safety & EMC regulation (CP) Brazil: NR12 Australia, New Zealand: Australia EMC framework (RCM) |
|------------------------|--|

NETWORK

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|--------------------|----------------------------------|
| 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, Crimson, Yellow, Grey, Red, Blue, Orange, Magenta, 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

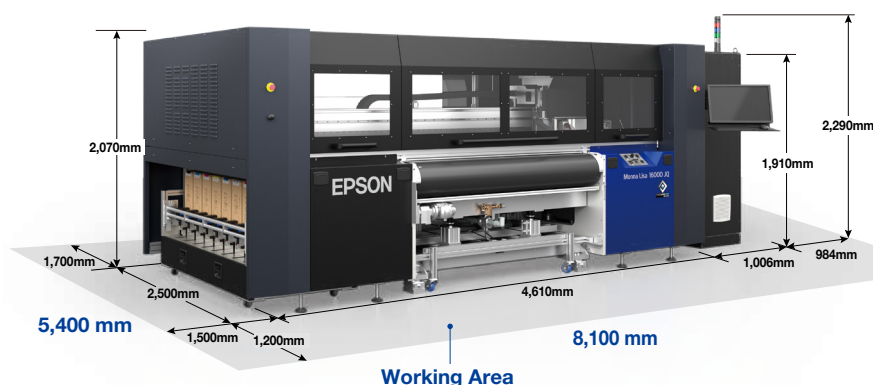
DIMENSIONS

- **Printer**
ML-16000JQ : 4,610 (W) x 2,500 (D) x 2,070 (H) mm (181 x 98 x 81 in)
- **Control box**
ML-16000JQ: 660 (W) x 1,500 (D) x 2,290 (H) mm (26 x 59 x 90 in)

WEIGHT

- **Printer**
ML-16000JQ : Approx. 3,910 kg (8,620 lb)
- **Control box**
Approx. 400 kg (882 lb)
- **Ink Rack**
Approx. 240 kg (529 lb) (not including ink)

ML-16000JQ & Working Area Dimensions



PRECISIONCORE
PRINTHEAD