

ML-64000



The ML-64000 is our flagship model of industry-leading series of Monna Lisa digital textile printers. Equipped with 64 newly developed PrecisionCore printheads, the ML-64000 brings together the best of Epson's world-class inkjet printing and manufacturing technologies, delivers high quality printing at exceptionally high speed to meet the needs of a more competitive and dynamic textile market.

High productivity without compromising print quality

The ML-64000 reaches a print speed of 740 square metres per hour (600x600 dpi – 2 pass), without compromising printing quality.

Dynamic Alignment Stabiliser (DAS) technology also ensures stable print quality by controlling waveforms on each printhead chip for higher dot placement accuracy and more uniform dot density on each pass. The ML-64000 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.

With the textile market requiring quick delivery and reduced lot quantity, the ML-64000 is the right solution for printing companies that need to print small to large lot orders on different type of fabric with simple to complex designs at daily operation. Now large and medium-sized companies can manage frequent but diverse lot orders typical for the “fast fashion” market. With its high productivity and print quality, the ML-64000 can replace multiple printers with a single printer.

Stable operation with minimal downtime

Stable operation and unprecedented usability are realised by advanced cleaning mechanisms and automated adjustment functions. The fluff blower system removes fluff from the fabric surface before it enters the printing area, and the ink mist extraction system helps reduce nozzle clogging problems. In the event a nozzle does become clogged, Nozzle Verification Technology (NVT) detects missing dots and adjusts ink delivery to maintain image quality and reduce printing errors. With high-accuracy head alignment technology and automatic calibration by the built-in RGB camera, printhead replacement and calibration can be completed easily. In addition, the Epson Cloud Solution PORT reduces downtime and service calls by allowing quick response to potential problems, and the operating status of all connected printers can be viewed from PC or mobile device, helping to maximize your productivity.

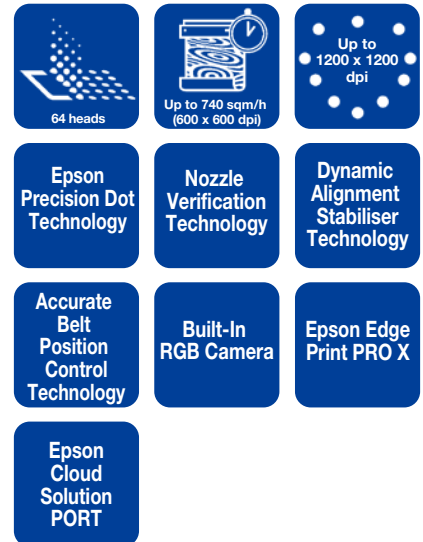
Easy operation

Ease of use is enhanced by 10-litre high-capacity ink cartridges with sub tank system that allow uninterrupted production. Wide maintenance space on both the left and right sides make daily maintenance works easier.

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.*

Datasheet



Key features

Productivity

740 sqm/h (600 x 600 dpi, 2 pass)
533 sqm/h (900 x 600 dpi, 3 pass)

High print quality

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

Stable operation/ Easy maintenance

Fluff blower system
Ink mist extraction system
Nozzle Verification Technology (NVT)
Built-in RGB camera for auto calibration
Epson Cloud Solution PORT

Easy Operation

10-litre high-capacity ink cartridges

Extensive software

Epson Edge Print PRO X
ColorBlend software
Other major textile RIP software

*Genesta RE-N Reactive inks (except Grey RE-N) and Genesta PG-2 Pigment inks

TECHNICAL SPECIFICATIONS

PRINT									
Printing technology	PrecisionCore inkjet technology								
Number of printheads	64								
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	10.0 mm								
PRINT SPEED									
Square ^{*1}	<table border="0"> <tr> <td>Typical printing speed 1 (m²/h)</td> <td>740 (600 x 600 dpi, 2 pass)</td> </tr> <tr> <td>Typical printing speed 2 (m²/h)</td> <td>533 (900 x 600 dpi, 3 pass)</td> </tr> <tr> <td>Typical printing speed 1 (sq ft/hr)</td> <td>7,965 (600 x 600 dpi, 2 pass)</td> </tr> <tr> <td>Typical printing speed 2 (sq ft/hr)</td> <td>5,737 (900 x 600 dpi, 3 pass)</td> </tr> </table>	Typical printing speed 1 (m ² /h)	740 (600 x 600 dpi, 2 pass)	Typical printing speed 2 (m ² /h)	533 (900 x 600 dpi, 3 pass)	Typical printing speed 1 (sq ft/hr)	7,965 (600 x 600 dpi, 2 pass)	Typical printing speed 2 (sq ft/hr)	5,737 (900 x 600 dpi, 3 pass)
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FABRIC HANDLING									
Fabric drive	Conveyor belt with thermoplastic adhesive								
Belt washing	Automatic								
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	400V, 3 phase + Neutral + Earth, 50Hz/60Hz								
Rated current	Main unit: 30 A								
Apparent power (VA)	Main unit: 20.7 kVA (Operating)								
CERTIFICATIONS									
Safety	<p>Mexco: NOM-019-SCFI-1998 section 1.2</p> <p>Brazil: NR12 Safety in Machinery and Equipment Work</p> <p>EU, EFTA countries, Turkey: EN ISO 12100, EN 13849-1, EN 60204-1, EN 1010-1, EN 55011, EN 61000-6-2</p> <p>Morocco: Order No. 2573-14, Order No. 2574-14</p> <p>Russia, Belarus, Kazakhstan, Ukraine: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2</p> <p>Australia, New Zealand: AS CISPR11</p> <p>India: (HSE, Declaration) Electrics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012 IS13252 (Part 1)</p> <p>Korea: KS C 9811, KS C 9610-6-2</p> <p>Jordan: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2</p> <p>Serbia: EN ISO 12100, EN 13849-1, EN 60204-1, EN 55011, EN 61000-6-2</p> <p>Korea: KN11, KN61000-6-2</p>								
Electromagnetic									
NETWORK									
Transmission speed	1000BASE-T (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, 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

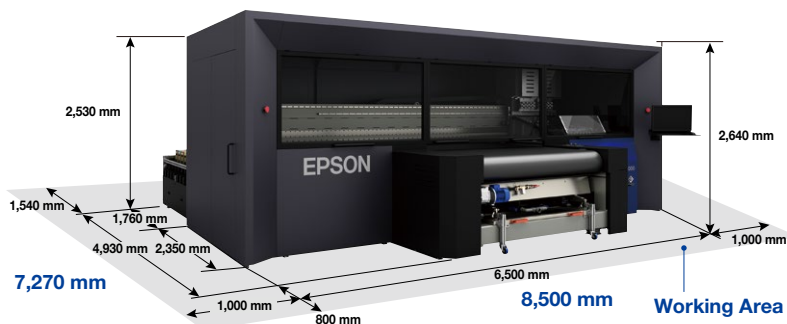
DIMENSIONS

- **Printer**
Printer 6,500 (W) x 4,960 (D) x 2,530 (H) mm
(256 x 195 x 100 in)
- **Control box**
1,600 (W) x 1,200 (D) x 2,640 (H) mm
(63 x 47 x 104 in)
- **Ink rack (without ink)**
1,760 (W) x 960 (D) x 840 (H) mm
(69 x 38 x 33 in)

WEIGHT

- **Printer**
Approx. 7,000 kg (15,432 lb)
- **Control box**
Approx. 700 kg (1,543 lb)
- **Ink Rack**
Approx. 300 kg (661 lb) (not including ink)

ML-64000 & Working Area Dimensions



PRECISIONCORE
PRINTHEAD

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