

Epson Monna Lisa Evo Tre 32

Datasheet



Monna Lisa Evo Tre is an industrial digital textile printer based on Total Solution, the fully integrated system where all components belong to the same process to guarantee the best printing results and the utmost customer satisfaction. This is the result of the synergy of Epson inkjet printing technology with engineering by F.lli Robustelli and pre/post-treatment and inks by For.Tex, both companies now part of the Epson Group.

Excellence and productivity in digital textile printing

The high quality and productivity of Monna Lisa Evo Tre derives from Epson's advanced PrecisionCore 4-chip print heads. Symmetric head and ink alignment ensure consistent bi-directional printing, improving both print quality and productivity. Optimized Variable-sized Droplet technology guarantees extreme accuracy in reproducing nuances and very detailed or geometric patterns, as well as the best quality/speed ratio. Productivity is further increased by easy maintenance and minimized downtime.

Flexibility to meet any printing need

Epson's inkjet printing technology is characterized by the flexibility to print on a wide range of media. This is also true for Direct-to-Fabric printing. With the Monna Lisa Evo Tre you have a single printer that meets a variety of different production needs and applications, as it can print on any type of fabric by installing the corresponding ink types. Flexibility also means a full range of configurations by number of print heads (32 in this case) and printing widths (up to 320 cm).

Easy ink management

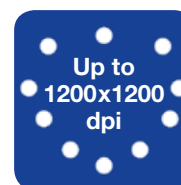
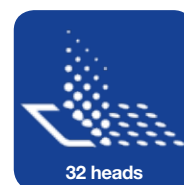
Genesta is the family of inks specifically designed for the Monna Lisa Evo Tre series. It is available in four different types according to fabric or application: Acid, Reactive, Disperse and Pigment. The exclusive vacuum-packed degassed ink management system is designed to obtain the maximum efficiency while minimizing ink waste. Colour ink racks are available in different capacities (3 or 10 L).

16 channels or 8+8 channels colours configurations

Monna Lisa Evo Tre 32 offers the versatility to choose between two different derivative configurations to suit any production need. With the 16 channels version you have 16 colour channels to configure based on fabric pattern and the desired final result, especially with the Acid Genesta inks that include Fluo and spot colours. With the 8+8 channels colours version you can apply two different types of ink simultaneously (Acid+Reactive). This solution is of particular value for those printing companies with limited space or budget.

Epson Edge Print Textile

Quality, productivity and versatility is further enhanced by software specifically designed to get the most out of your Monna Lisa Evo Tre. The freedom to use other RIPs or textile CADs is of the printer's main flexibility features.



Key features

High quality and productivity

Configuration with 32 PrecisionCore Micro TFP print heads

Maximum printing speed

692 sqm/h (461 Lmt/h) (8 ch, 300x600 dpi, 1 pass)

Ink management

Acid, Reactive, Disperse and Pigment inks in different capacities (3 or 10 L)

Versatile configurations

16 channels or 8+8 channels colours versions

Extensive software compatibility

Epson Edge Print Textile for Monna Lisa Evo Tre and the flexibility to use other RIPs or textile CADs

TECHNICAL SPECIFICATIONS

TECHNOLOGY

Textile inkjet printing with VSDT Micro Piezo PrecisionCore head technology 4 chips per head

PRINTING

Number of print heads 32
Number of colours 8 colours (2 possible derivative configurations: 16 channels or 8+8 channels colours)
Compatible inks Epson Genesta inks Acid - Reactive - Disperse - Pigment
Ink system Closed system with degassed ink bag sizes 3 L or 10 L
Print resolution Range from 300 dpi to 1200 dpi horizontal resolution at 600 dpi or 1200 dpi vertical resolution (1-8 passes)

BELT

Max printing width (cm) 180 - 220 - 320
Max printing length Unlimited
Fabric drive Endless belt
Adhesive type Permanent
Belt Washing Automatic
Fabric thickness Up to 10 mm (max height of print heads 12 mm)

ENVIRONMENTAL CONDITIONS

Operating temperature Temperature: 20°C to 30°C (68°F to 86°F)
Humidity From 35% to 80% RH (no condensation)
Recommended printing environment Temperature: 22°C to 28°C (71.6°F to 82.4°F)
Recommended storage environment Store the printer filled with ink.
Temperature: 0°C to 40°C (32°F to 104°F)
1 month, must not be any condensation
Operating environment Traditional place dust proof

SIZE & WEIGHT (180 CM 32 HEADS MODEL)

Device size Printer:
4,610 (W) x 2,040 (D) x 2,070 (H) mm (181x80x81 in)
Main electric box:
700 (W) x 1,800 (D) x 2,350 (H) mm (28x71x93 in)
10L Ink rack:
1,240 (W) x 1,300 (D) x 1,220 (H) mm (49x51x48 in)
Equipment weight Printer: approx. 3,700 kg (8,157 lb)
Main electric box: approx. 570 kg (1,257 lb)
10L Ink rack: approx. 380 kg (838 lb)

POWER

Voltage 400 V ± 10%, 3-phase + Neutral + Earth
Frequency 50-60 Hz
Power consumption 19.5 kW

COMPRESSED AIR

Compressed air supply Min. 6 bar
Air supply quality Standard ISO 8573.1 - Class 2, 4, 3
Air consumption Max. 1,450 L/h

WATER

Water pressure Min. 4 bar max 5 bar
Water flow rate Max. 100 litres per hour

PRODUCTIVITY

Printing width 1,500 mm
Printing mode Bidirectional
Dot size Variable
Maximum printing speed Up to 692 sqm/h (461 Lmt/h) (8 ch, 300x600 dpi, 1 pass)
Typical printing speed 402 sqm/h (8 ch, 600x600 dpi, 2 pass)
261 sqm/h (8 ch, 900x600 dpi, 3 pass)

Supplies

- **Acid**
Black, Cyan, Magenta, Yellow, Red, Blue, Orange, Cobalt, Grey, Rubine, Fluorescent Flavine, Fluorescent Pink, Across (Ink Penetration Liquid)
- **Reactive**
Black, Cyan, Magenta, Yellow, Red, Blue, Orange, Grey, Crimson, Across (Ink Penetration Liquid)
- **Disperse**
Black, Cyan, Magenta, Yellow, Red, Blue, Orange, Grey
- **Pigment**
Black, Cyan, Magenta, Yellow, Red, Green, Orange, Grey

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PRECISIONCORE

EPSON®