

LAFORTE[®] 400

Industrial Digital
Print solutions



MADE IN ITALY



 aleph[®] 20 YEARS
1999-2019

in printing, we care

Our difference

Why choose LaForte?

Premium built

Quality materials with outstanding performance mechanics

Dual module heads

- Dual channel: 2 colors per head
- Excellent speed & precise jetting
- Significantly reduced maintenance cost due to less number of heads

Integrated printing solutions

Software + hardware + ink + media

International team of experts

Our team listens and understands your needs offering cost effective consultancy and solutions

Our printing results

What are the LaForte advantages?

High definition printing

- Maximum resolution of 1200 DPI
- Variable drop technology
- Dynamic stitching technology for HQ multi pass printing

Accurate printing: quality and precision

- Automatic head alignment for maximum precision
- Individual head adjustments: slant and stagger
- Precise belt feeding movement
- Feed accuracy

Consistant printing results

- Advanced control software accentuates the clearness and authenticity of the output, reducing the dithering effect
- Advanced matrix dot layout guarantees an exceptional yield



2018 – EDP awards:
Textile Printer
on transfer paper



2018 – Future textile awards:
Best Innovation
Home Textiles



Printing technology

Variable drop inkjet from 4pl to 72pl
(2.656 nozzles - 2 colors)



Ink tank capacity

5 / 10 / 20 kg/l/t



Compressed air consumption

6~8 bar - 250 L/min



Interface

Ethernet 10 GB



Necessary operating conditions

Temperature 18 °C-25 °C (65 °F-77 °F)
Humidity 45-60%



Media feeding mechanism

Rotary belt with vacuum system
(patented)



DST

Dynamic stitching technology



Printing resolution

300 / 600 / 900 / 1200



Media

Paper and plastic film



Ink

Sublimation, pigment



Number of colors

4 / 6 / 8

Our mechanics makes the difference

How does it work?

Anti-mist technology & solvent free printing

- No contamination on printer
- Healthier environment for the operator
- No glue used on belt

Innovative rotary belt

- The printer may be used to print on variates of paper using an innovative rotary belt with air vacuum system
- Giving more stability and no elongation to obtain better printing results
- Easy to clean for less downtime
- Patented system

Solid aluminum frame

Eliminates vibration, guaranteeing a stable print and a long life with no rust

Heavy-duty carriage

- Laser cut heads stage
- External electronics
- Fiber optic cables

Stable ink sub-tank

- System for negative pressure control
- Separate ink pressure per single channel
- Pressure sensor for auto-correcting pressure stability
- External sensor for determining ink level

Reliable & precise motion

- Manually assembled in house
- Magnetic linear motor and double rail for carriage stability
- Aluminum bridge 0.02 mm torsion/deflection
- 300 kg bridge weight
- Head crash safety plates

Feeding & auto switch ink system

- Eliminates downtime for manual ink change: auto ink switch when empty
- 10 kg per color
- No ink is wasted
- Rapid connector - Easy to operate

Touch panel

- User friendly interface
- Print queue manager
- IoT Maintenance Section
- Remote assistance

Front dryer & take up

- Micro weave ceramic lamp for low energy consumption
- Compact
- Huge reduction on exhaust smokes
- Continuous tension and roll alignment

Printer model and specs



POWER SETTINGS
16 kVA / 3 phases+neutral / 380-420V ±10% / 16A

DIMENSIONS
4680x2300xh 2400 mm

WEIGHT
2.800 kg



POWER SETTINGS
16 kVA / 3 phases+neutral / 380-420V ±10% / 16A

DIMENSIONS
5180x2300xh 2400 mm

WEIGHT
3.000 kg

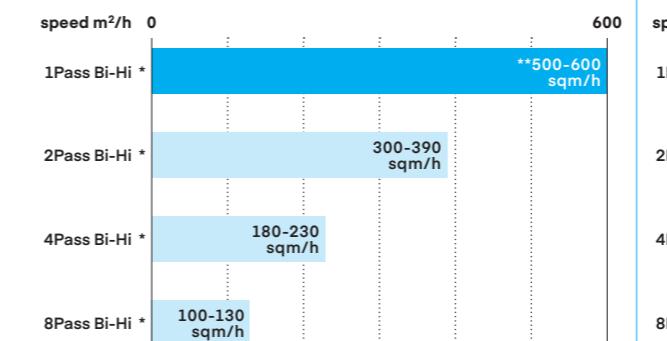


POWER SETTINGS
19 kVA / 3 phases+neutral / 380-420V ±10% / 16A

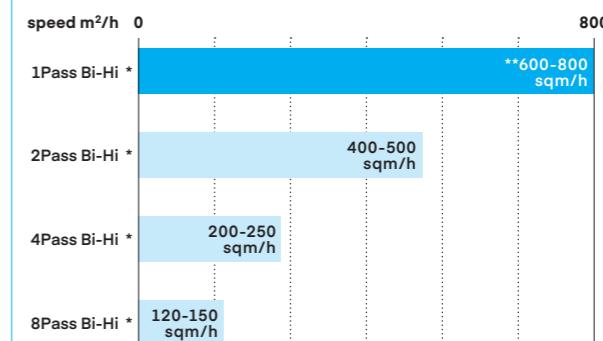
DIMENSIONS
6180x2300xh 2400 mm

WEIGHT
4.500 kg

print width 1800 mm



print width 3200 mm



4-color

2xCMYK



16 Print Heads - 4 lines



4 colors / 16 heads / 4 lines

8-color

2xCMYK



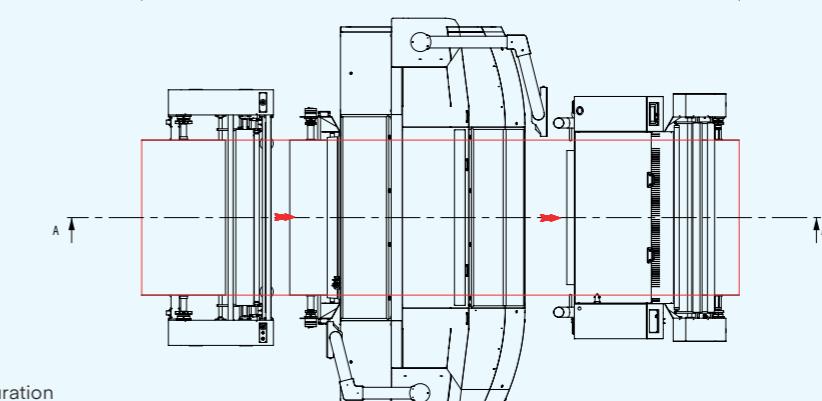
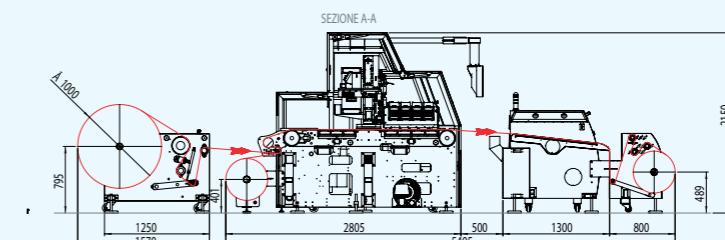
16 Print Heads - 4 lines



8 colors / 16 heads / 4 lines

** 1 Pass mode: available only for dual channel per color.

* Print speed may vary depending on the substrate, the quality required and the print width selected.

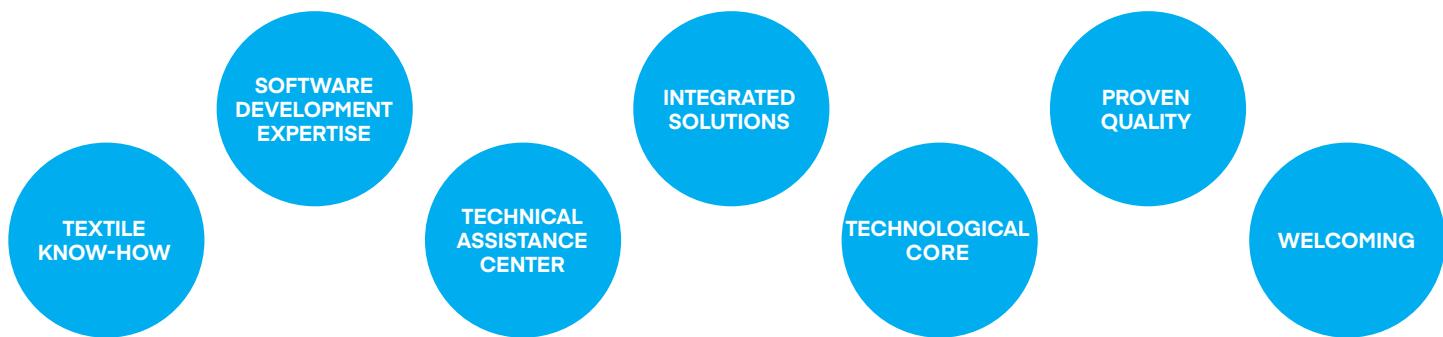


- Example of a full line configuration
- Accessories are an optional
- Configuration available for all models

Founded in 1999 in Como, **in the heart of Italian textiles district**, Aleph has become an **international player in digital printing solutions with a dedicated sales force and a distribution network** located in key textile markets. Aleph's **extensive know-how in high quality proprietary printing software and the experience gained with major textile companies**, have allowed the company to become a manufacturer of **technologically advanced inkjet**

digital printers. From high-tech digital printers to drying systems, from proprietary software to consumables, **Aleph is able to offer integrated printing solutions to their clients in order to become a partner for their success.** Thanks to its **customer-centered approach, cost-effective solutions and the expert service**, Aleph aims to ensure the clients the maximum return on their investments.

Our values



Our office

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