LAFORTE® 340 Fabric

Technical Specifications

Ph Technology	Drop on-demand Piezo inkjet technology	
Printhead	Type	2.556 nozzle - 2 colour, Water based
	Drop Size	4pl to 72pl
	Number of printheads	8pcs or 16pcs
Printing Width	Max.	3400mm
	Min.	100mm
Print Mode	Resolution	600x300, 600x600,600x900, 600x1200, 900x600, 900x900, 1200x1200
	Passes	1/2/3/4/6/8 (uni and bi-directional)
Environmental conditions	Operating temperature	20°C to 30°C (68°F to 86°F)
	Humidity	From 35% to 60% RH (no condensation)
	Recommended printing environment	Temperature 22°C to 28°C (71.6°F to 82.4°F) Humidity 40%
	Recommended storage environment	16°C to 38°C (60.8°F to 100.4°F) Store the printer filled with ink
	Operating environment	Traditional place dust proof
Ink	Tank Capacity	5kg/10Kg/20Kg
	aleph® inks	Acid, Disperse,Reactive, Nano TX Pigment M22™
Size	6370 (W) x 2150 (D) x 2300 (H) mm	
Weight	4800 Kg	
Power	Voltage	400 V ± 10%, 3 Phase + neutral + Earth, 32A
	Frequency	50-60Hz
	Power consumption	14 KW – average running consumption 7Kwh
Compressed Air	Compressed air supply	8 bar
	Air supply quality	Standard ISO 8573.1 – class 2,4,3
	Air consumption	Max. 250 L/h
Water	Water pressure	Min. 4 bar max. 5bar
	Water flow rate	Max. 50 to 100 litres per hour
Belt system	Rotary Sticky belt	
Feeding System (standard)	Max. roll size Ø	0.5mt diameter / 200Kg
	Pneumatic roll bar	2 inch standard (3 inch optional)
Feeding System (optional)	Max. roll size Ø	1.5mt diameter / 1 tons
Take Up unit (optional)	Max. roll size Ø	0.5mt diameter / 200 Kg
	Pneumatic roll bar	2 inch standard (3 inch optional)

aleph® inks

Substrate Compatibility

	Pigment	Reactive	Acid	Disperse
Nylon	○	○	●	○
Nylon Lycra	○	○	●	○
Polyester	○			●
Silk	○	○	●	
Cotton	●	●		
Polycotton	●			
Viscose/Rayon	●	●		
Linen	●	●		
Wool	○	○	●	

•Recommended Use I ○ Potential Use

Ink Colour

Pigment inks

Black · Cyan · Magenta · Yellow · Orange · Green · Red · Violet

Reactive

Black · Cyan · Magenta · Yellow · Red · Orange · Blue · Light Black

Acid

Black · Cyan · Magenta · Yellow · Red · Orange · Blue · Light Black

Disperse

Black · Cyan · Magenta · Yellow · Violet · Red · Orange · Grey

Ink configurations
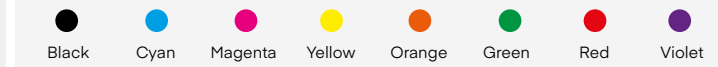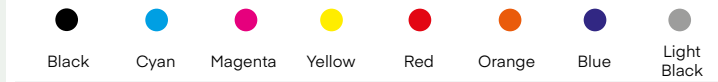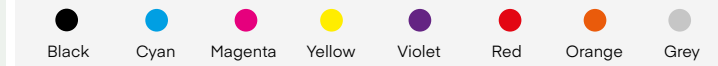
4 colours 2xCMYK

8 colours

8 heads / 2 row / 16 colour line

4 colours 2xCMYK

8 colours

16 heads / 4row / 32 colour line

Speed

2400 / 6180 / Print width **3400 mm**

8 Print Head
- 2x4 colors — Up to **570 sqm/h**
- 1x8 I 1x6 colors — Up to **380 sqm/h**

16 Print Head
- 2x4 colors — Up to **940 sqm/h**
- 1x8 I 1x6 colors — Up to **630 sqm/h**

* All the printing speeds have been calculated based on 3000mm-width printer and may vary depending on the substrates, the level of the quality and the selected print width.

Key Features

Technology Highlights

✓ **Superior Productivity**
- Up to 940 sqm/h

✓ **Superior Printing Quality**
- Variable drop technology
- Resolution up to 1200 dpi
- Dynamic Stitching Technology (DST) for high-quality multi-pass printing

✓ **Dual-Channel Printheads**
- 2 colours per printhead
- Drastically reduced maintenance costs due to the smaller number of printheads
- High speed and accurate jetting

✓ **Pioneering Media Feeding System**
- Rotary sticky belt
- Advancement accuracy 40 microns
- Enabling more stability and eradicating elongation for superior quality

✓ **Extremely low energy consumption reducing overall sustainable impact**

Distinctive Features

✓ **Anti-mist technology & solvent free printing**
- Healthy environment for the operator
- No solvent and glue used on belt

✓ **Ink Supply System**
- Automatic negative pressure control
- Negative pressure control system on each ink line
- Ink tanks from 5kg to 20kg per colour
- Plug & Play Ink Tanks

✓ **Reliable and accurate motion**
- Magnetic linear motor and double rail for carriage stability
- Aluminum bridge 0.02 mm torsion/deflection
- Safety system - preventing printheads from collision with the substrates

✓ **Service**
- Remote System Control/Assistance
- IoT Support
- Easy Maintenance

✓ **Workflow**
- Interfacing with aleph, Inedit, Ergosoft, Caldera, Onyx

Key Feature Highlights (side panel)
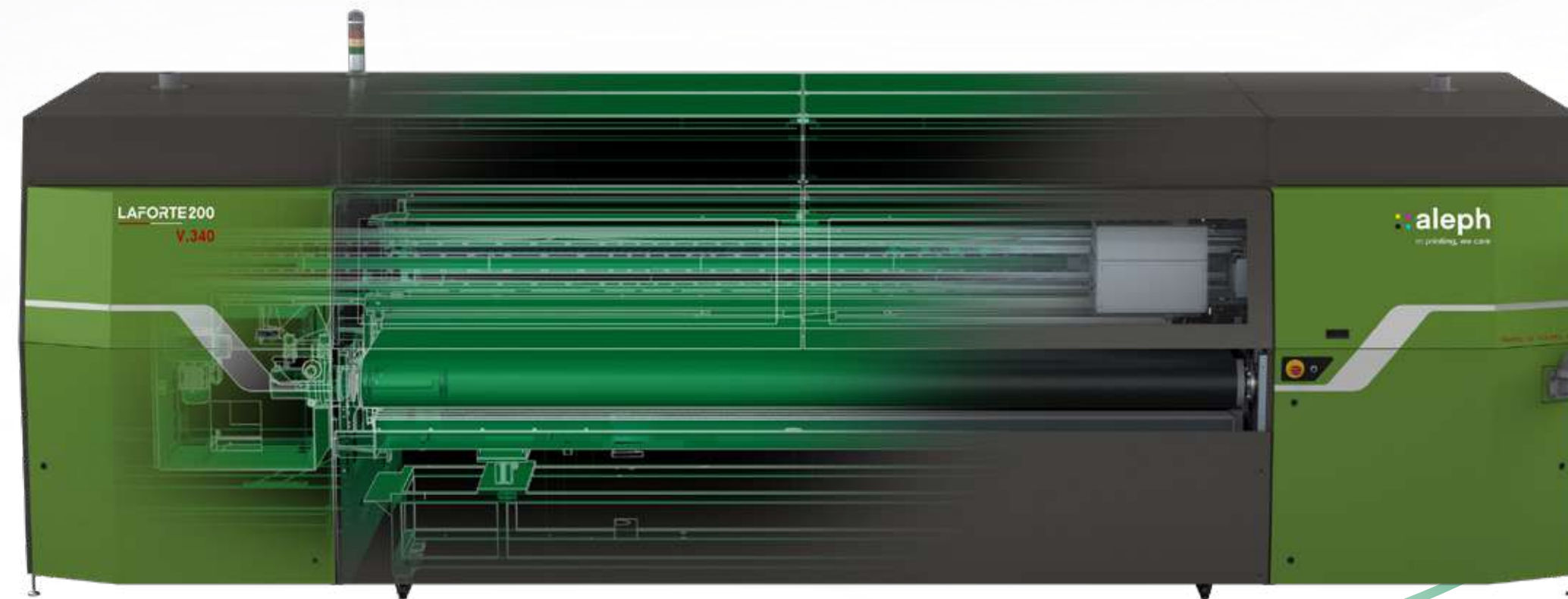
- **Compact design and robust frame**
- **Advanced Inkjet Printing Technology**
  Variable drop – from 4pl to 72pl
  (2.656 nozzles – 2 colours – Resolution up to 1200 dpi)
- **Dual-Channel Printheads**
  2 colours for printhead enabling high print accuracy with smaller number of printhead
- **Cutting-edge Sublimation Inks**
  4 / 6 / 8 colours
  Ink tank capacity: 5/10/20 kg/lt
- **Pioneering Media Feeding system**
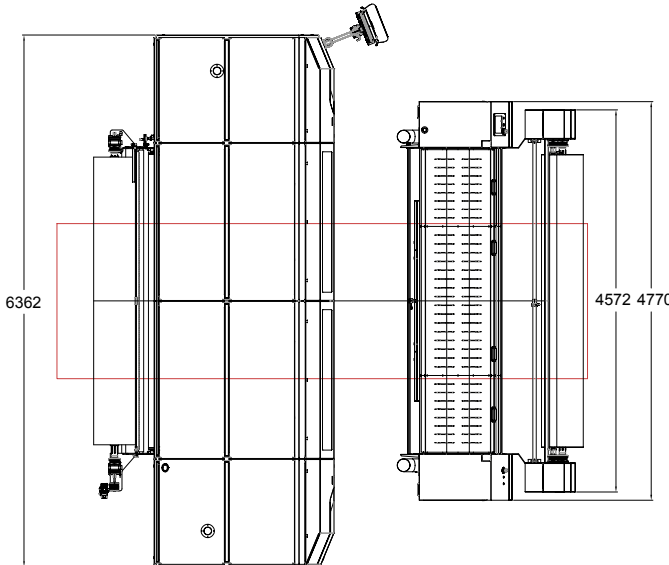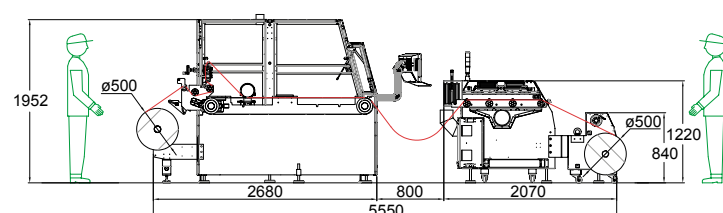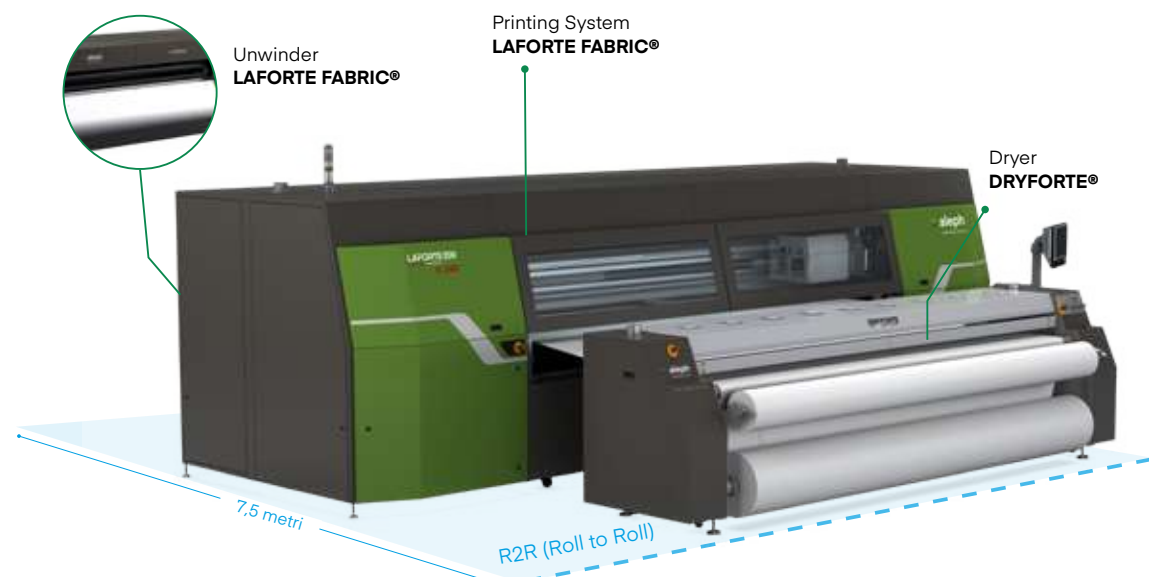 Rotary sticky belt
  Advancement accuracy 40 microns
- **DST – Dynamic Stitching Technology for high-quality multi-pass printing**
- **Anti-mist technology & Solvent-free printing**
- **User-friendly Touch Panel and Ethernet 1/10 GB Interface**
- **Low power consumption**

LAFORTE200 V.340

aleph
in printing, we care

Integrated Production Line

Unwinder
LAFORTE FABRIC®

Printing System
LAFORTE FABRIC®

Dryer
DRYFORTE®

7,5 metri

R2R (Roll to Roll)

1952

ø500

ø500

1220
840

2680   800   2070

5550

6362

4572 4770

Full-line Configuration

- The setting is available for all printer models
- Accessories are available as optional

MADE IN ITALY

LAFORTE® 340
FABRIC

Superior Print Quality

Advanced Eco-friendly Technology

Comprehensive, Integrated Solution Enabling Top Performances

Energy-Saving Production Process

Up to 940 sqm/h

LAFORTE Fabric® Series

LAFORTE**100**   LAFORTE**200**   LAFORTE**400**   LAFORTE**600**

MADE IN ITALY

aleph
In printing, we care

aleph specialises in developing and manufacturing advanced direct-to-fabric and direct to paper inkjet printers for the textile and visual communication industries and provides its customers with total, integrated solutions.
Founded in 1999 and headquartered at the heart of the Italian textile district of Como, the company has grown to become one of the leading international players in the digital printing space. With a dedicated sales force and a widespread distribution network, aleph operates in key textile and out-of-home markets across the globe.

The company's extensive experience in the textile industry has enabled aleph to progressively expand the offer and boost the service, with the final goal to actively contribute to customers' success. aleph offers integrated printing solutions, featuring proprietary software, cutting-edge digital printers, as well as drying systems and consumables.
aleph's green policy focuses on environmental and social sustainability. With the company steadily focused on innovation, aleph's customers can benefit from cost-effective technologies with reduced environmental impact and designed to increase the users' green reputation.

A Special Printer Tailored to Special Home Textiles

::aleph
in printing, we care
A Durst Group Company