LAFORTE® 320 Paper

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.	3200mm
	Min.	2200mm
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	Sublimation, Graphic Pigment A22SP™
Size	6120 (W) x 1900 (D) x 2260 (H) mm	
Weight	4600 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
Belt system	aleph® Rotary Vacuum belt (patented system)	
Feeding System (standard)	Max. roll size Ø	0.5mt diameter / 250Kg
	Pneumatic roll bar	3 inch standard (6 inch optional)
Take Up unit (optional)	Max. roll size Ø	0.5mt diameter / 250 Kg
	Pneumatic roll bar	3 inch standard (6 inch optional)

aleph® inks

Sublimation

Ink Colour

- Black
- Cyan
- Magenta
- Yellow
- Violet
- Light Magenta
- Orange
- Grey
- Fluo Yellow
- Fluo Magenta

Substrate Compatibility

Nylon	○
Nylon Lycra	○
Polyester	●
Silk	
Cotton	
Polycotton	○
Viscose/Rayon	
Linen	
Wool	

•Recommended Use | o Potential Use

Speed

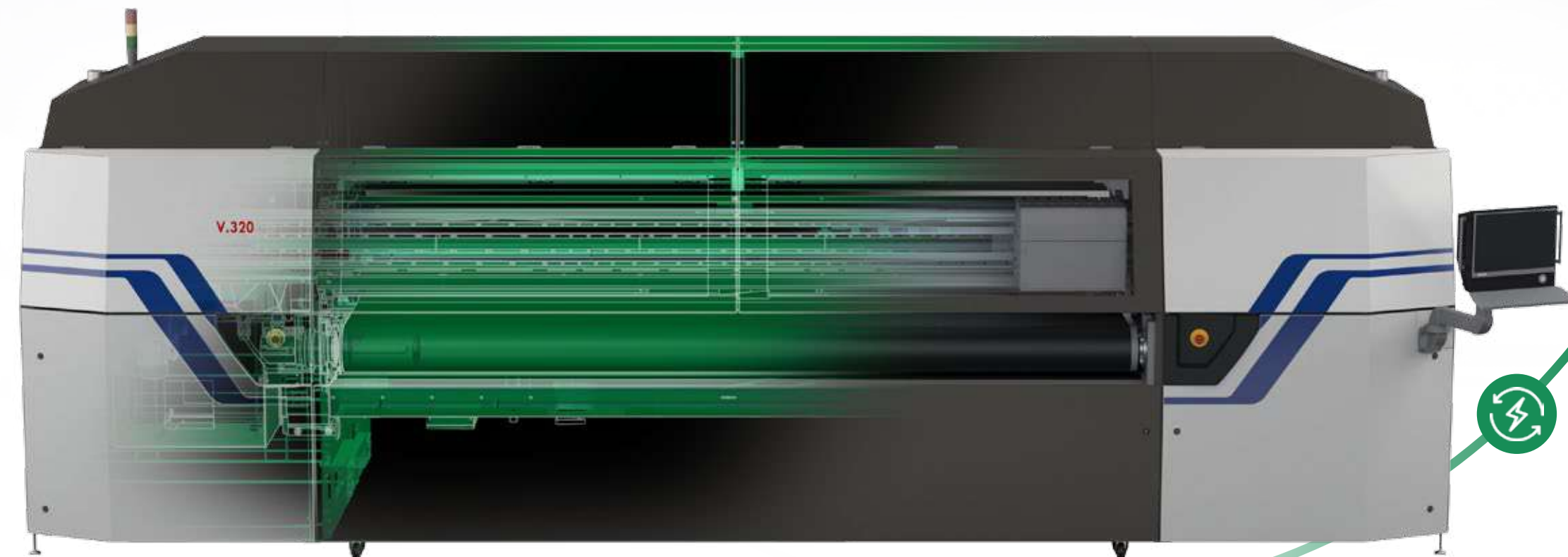2400 / 6180

Print width: **3200 mm**

8 Print Head

- 2x4 colors — Up to **680 sqm/h**
- 1x8 | 1x6 colors — Up to **380 sqm/h**

16 Print Head

- 2x4 colors — Up to **1000 sqm/h**
- 1x8 | 1x6 colors — Up to **760 sqm/h**

4 colours 2xCMYK   **8 colours**

8 heads / 2 row / 16 colour line

4 colours 2xCMYK   **8 colours**
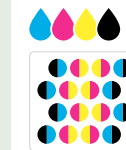
16 heads / 4row / 32 colour line

* 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 1000 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
- Proprietary Rotary vacuum 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

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
Proprietary rotary vacuum belt
Advancement accuracy 40 microns

DST – Dynamic Stitching Technology for high-quality multi-pass printing

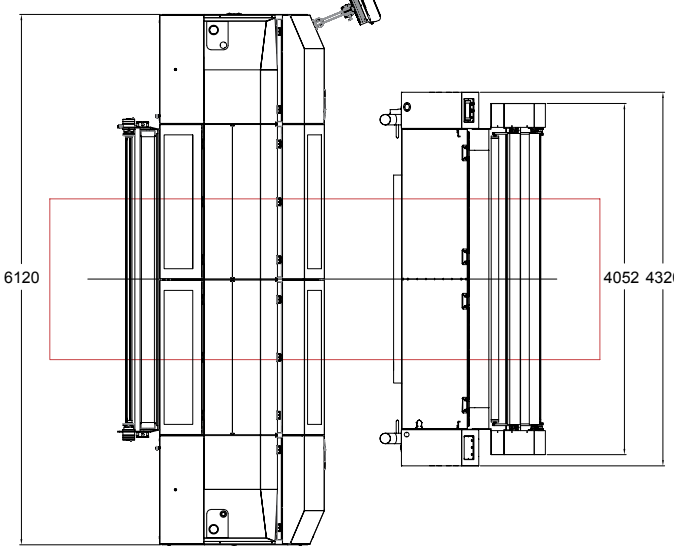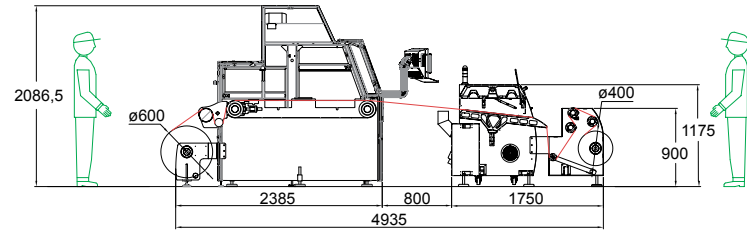**Anti-mist technology & Solvent-free printing**

User-friendly Touch Panel and Ethernet 1/10 GB Interface

Low power consumption

Integrated Production Line

Unwinder
LAFORTE FABRIC®

Printing System
LAFORTE FABRIC®

Dryer
DRYFORTE®

7,5 metri

R2R (Roll to Roll)

2086,5
ø600
ø400
1175
900
2385
800
1750
4935

6120
4052 4320

Full-line Configuration

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

MADE IN ITALY

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LAFORTE® 320
PAPER

Superior Print Quality

Advanced Eco-friendly Technology

Comprehensive, Integrated Solution Enabling Top Performances

Energy-Saving Production Process

Up to 1000 sqm/h

MADE IN ITALY

LAFORTE Paper® Series

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

Advanced Wide-format Industrial Digital Printer for Soft Signage

aleph®
in printing, we care

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.