

# LAFORTE® 600 Paper OOH

## 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	24pcs or 48pcs
Printing Width	Max.	1800mm
	Min.	1200mm
Print Mode	Resolution	600x300, 600x600, 600x900, 600x1200, 900x600, 900x900, 1200x1200
	Passes	1/2/3/4/6/8 (uni and bi-directional)
	Operating temperature	20°C to 30°C (68°F to 86°F)
	Humidity	From 35% to 60% RH (no condensation)
Environmental conditions	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	Graphic Pigment A22™
Size	6500 (W) x 2350 (D) x 2460 (H) mm	
Weight	4500 kg	
Power	Voltage	400 V ± 10%, 3 Phase + neutral + Earth, 32A
	Frequency	50-60Hz
	Power consumption	16 KW – average running consumption 8Kwh
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)
Feeding System (optional)	Max. roll size Ø	1.2mt diameter / 1.5 tons
	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

### A22 - graphic pigment ink

Ink Colour	Substrate Compatibility
● Black	Blue Back paper ●
● Cyan	White Back paper ●
● Magenta	Poster Paper ●
● Yellow	Wall paper ○
● Light Cyano	Corrugate ○
● Light Magenta	Graphic Film ○

### A22SP - graphic pigment ink

Ink Colour	Substrate Compatibility
● Black	Melaminic Paper ●
● Cyan	Graphic film ●
● Magenta	
● Yellow	
● Light Cyano	
● Light Magenta	

● Recommended Use | ○ Potential Use



### 4 colours

2xCMYK



24 Print Heads  
6 row / 48 colour lines

### 6/8 colours

2x



48 Print Heads  
6 row / 96 colour lines

## Speed



### 24 Print Head

● 2x4 colors	Up to 850 sqm/h
● 1x8   1x6 colors	Up to 750 sqm/h

### 48 Print Head

● 2x4 colors	Up to 1000 sqm/h
● 1x8   1x6 colors	Up to 850 sqm/h

\* All the printing speeds have been calculated based on 1500mm-width printer and may vary depending on the substrates, the level of the quality and the selected print width.

## Key Features

Technology Highlights	Distinctive Features
<ul style="list-style-type: none"> <li>✓ <b>Superior Productivity</b> - Up to 1000 sqm/h</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Anti-mist technology &amp; solvent free printing</b> - Healthy environment for the operator - No solvent and glue used on belt</li> </ul>
<ul style="list-style-type: none"> <li>✓ <b>Superior Printing Quality</b> - Variable drop technology - Resolution up to 1200 dpi - Dynamic Stitching Technology (DST) for high-quality multi-pass printing</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Ink Supply System</b> - Automatic negative pressure control - Negative pressure control system on each ink line - Ink tanks from 5kg to 20kg per colour - Plug &amp; Play Ink Tanks</li> </ul>
<ul style="list-style-type: none"> <li>✓ <b>Dual-Channel Printheads</b> - 2 colours per printhead - Drastically reduced maintenance costs due to the smaller number of printheads - High speed and accurate jetting</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Reliable and accurate motion</b> - 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</li> </ul>
<ul style="list-style-type: none"> <li>✓ <b>Pioneering Media Feeding System</b> - Proprietary Rotary vacuum belt - Advancement accuracy 40 microns - Enabling more stability and eradicating elongation for superior quality</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Service</b> - Remote System Control/Assistance - IoT Support - Easy Maintenance</li> </ul>
<ul style="list-style-type: none"> <li>✓ <b>Extremely low energy consumption reducing overall sustainable impact</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Workflow</b> - Interfacing with aleph, Inedit, Ergosoft, Caldera, Onyx</li> </ul>



### 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**

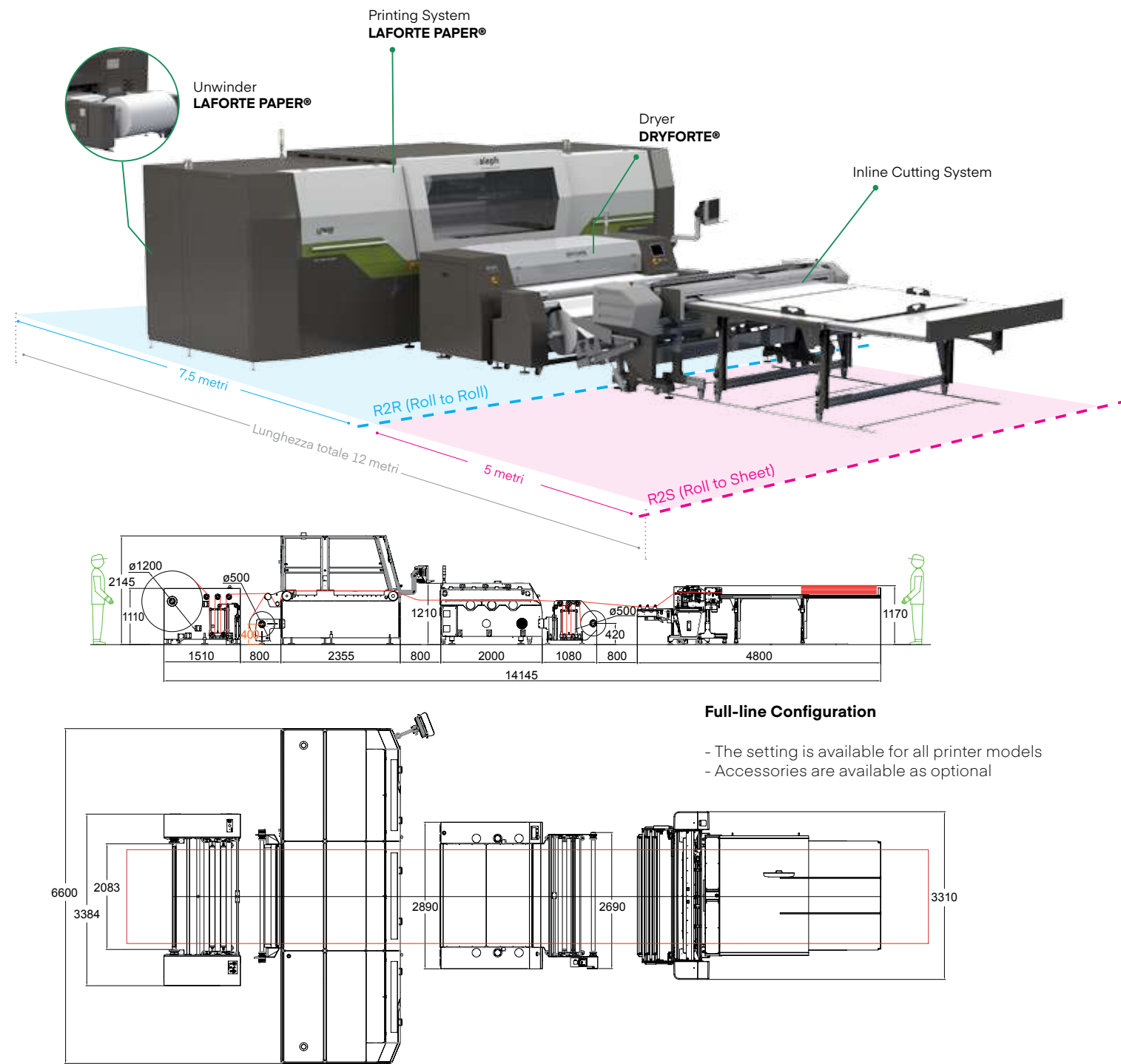


**User-friendly Touch Panel and Ethernet 1/10 GB Interface**



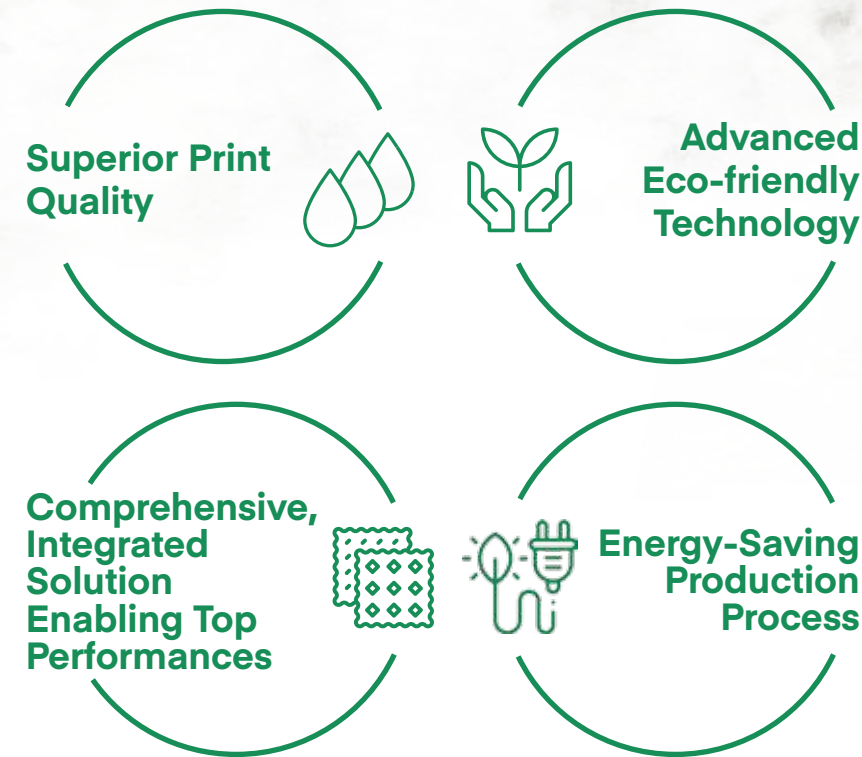
**Low power consumption**

## Integrated Production Line



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Up to 850 sqm/h (24 printheads)  
Up to 1000 sqm/h (48 printheads)

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.

## LAFORTE Paper® Series



## Super High-speed Industrial Printer for Billboard & Poster

