LAFORTE® 400 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	16pcs
Printing Width	Max.	1800mm / 2200mm
	Min.	1200mm
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	Graphic Pigment A22™
Size		4600 (W) x 2200 (D) x 2400 (H) mm
Weight		3200 kg (1850 mm) - 3.500 Kg (2200 mm)
Power	Voltage	400 V ± 10%, 3 Phase + neutral + Earth, 32A
	Frequency	50-60Hz
	Power consumption	12 KW – average running consumption 6Kwh
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 I o Potential Use

4 colours
2xCMYK
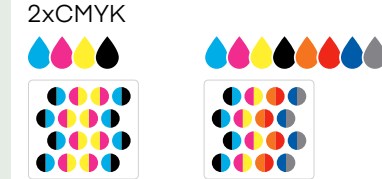
8 colours

16 heads / 4row / 32 colour line

Speed

2400
4600

Print width **1800 mm**
Print width **2200 mm**

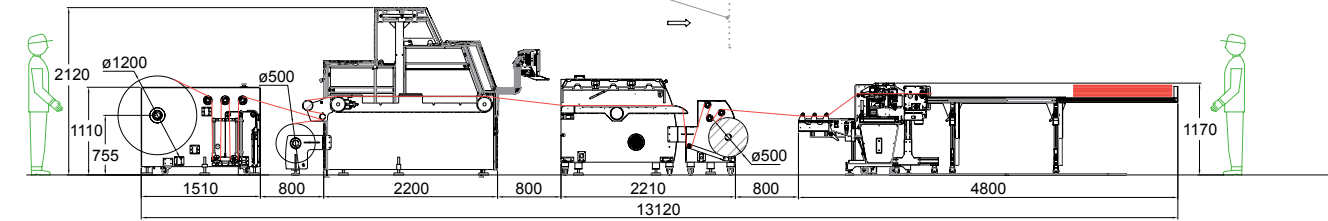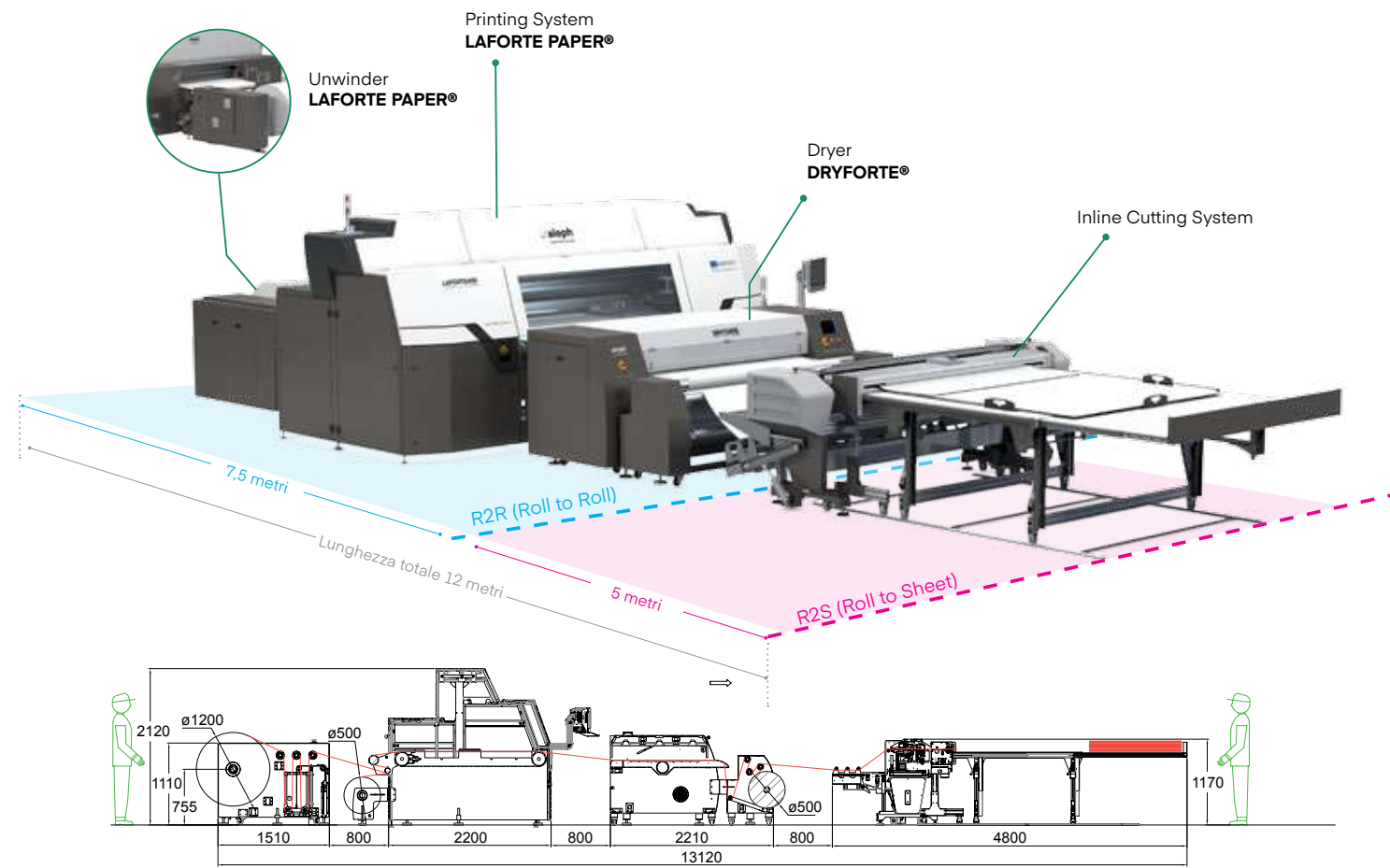2x4 colours — Up to **700 sqm/h**
1x8 I 1x6 colours — Up to **560 sqm/h**

* All the printing speeds are 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
✓ **Superior Productivity** - Up to 700 sqm/h	✓ **Anti-mist technology & solvent free printing** - Healthy environment for the operator - No solvent and glue used on belt
✓ **Superior Printing Quality** - Variable drop technology - Resolution up to 1200 dpi - Dynamic Stitching Technology (DST) for high-quality multi-pass printing	✓ **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
✓ **Dual-Channel Printheads** - 2 colours per printhead - Drastically reduced maintenance costs due to the smaller number of printheads - High speed and accurate jetting	✓ **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
✓ **Pioneering Media Feeding System** - Proprietary Rotary vacuum belt - Advancement accuracy 40 microns - Enabling more stability and eradicating elongation for superior quality	✓ **Service** - Remote System Control/Assistance - IoT Support - Easy Maintenance
✓ **Extremely low energy consumption reducing overall sustainable impact**	✓ **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

LAFORTE400

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Integrated Production Line

Unwinder
LAFORTE PAPER®

Printing System
LAFORTE PAPER®

Dryer
DRYFORTE®

Inline Cutting System

7,5 metri

R2R (Roll to Roll)

Lunghezza totale 12 metri

5 metri

R2S (Roll to Sheet)

2120 ø1200
1110 ø500
755
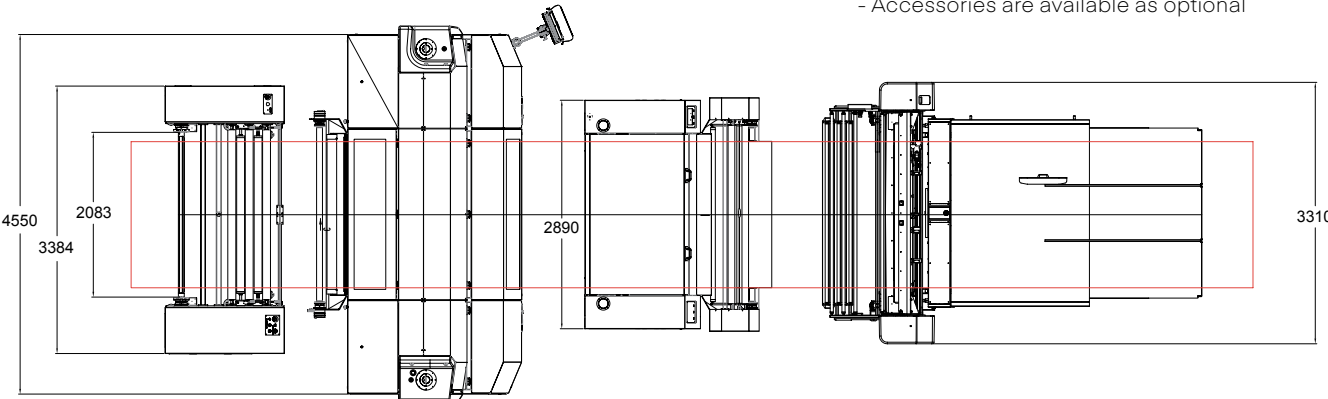
1510   800   2200   800   2210   800   4800
13120

1170

4550 2083
3384

2890

3310

Full-line Configuration

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

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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.

Superior Print Quality

Advanced Eco-friendly Technology

Comprehensive, Integrated Solution Enabling Top Performances

Energy-Saving Production Process

LAFORTE®400
PAPER

Up to 700 sqm/h

MADE IN ITALY

LAFORTE Paper® Series

LAFORTE 100

LAFORTE 200

LAFORTE 600

Advanced Industrial hight speed
Digital Printer for Billboard & Poster

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