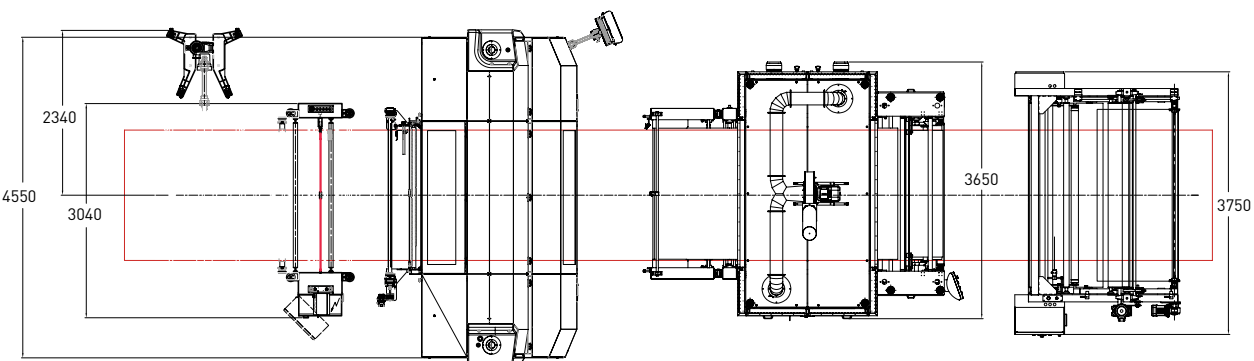
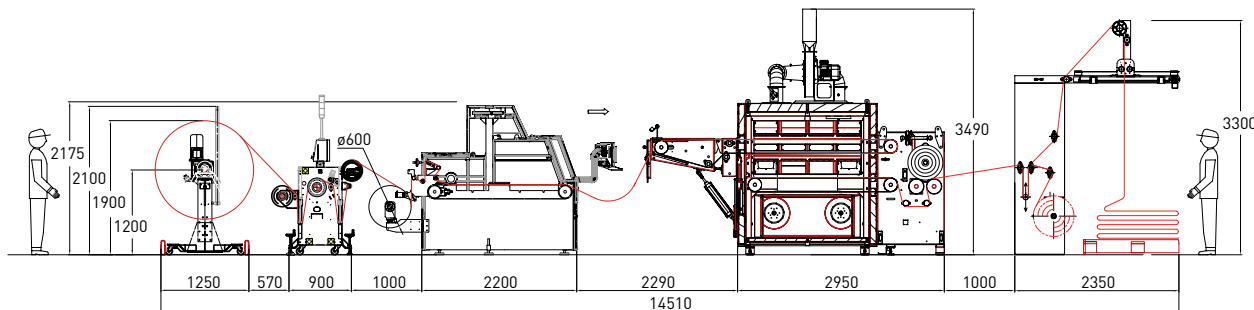


INTEGRATED END-TO-END PRODUCTION LINE



FULL-LINE INDUSTRIAL CONFIGURATION
> The setting is available for all printer models
> Accessories are available as optional



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. In September 2023, aleph became part of Durst Group. 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® FABRIC



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alephteam.com



LAFORTE® 400

Fabric



A must-have inkjet industrial printer
for mid to high print volumes



For more information,
please visit

alephteam.com/direct-to-fabric-digital-printers/



LAFORTE® 400

KEY FEATURES

TECHNOLOGY HIGHLIGHTS

Superior productivity	> Up to 630 sqm/h
Superior printing quality	> Variable drop technology > Resolution up to 1200 dpi > Dynamic Stitching Technology (DST) for high-quality multi-pass printing
Latest dual channel print head technology	> 2 colours per printhead > It enables 50% reduction in print heads without compromising speed > High speed and accurate jetting
Pioneering media feeding system	> Integrated rotary sticky belt > Advancement accuracy 40 microns > Enabling more stability and eradicating elongation for superior quality
Extremely low energy consumption	> Lowest energy consumption rate in the industry, running at 12 Kwh

ADDED-VALUE FEATURE

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 Durst Workflow, compatible with leading RIP systems available on the market

ALEPH® INKS

M22™ – NANO TX PIGMENT

■ Black
■ Cyan
■ Magenta
■ Yellow
■ Orange
■ Red
■ Violet

Recommended substrate:
> Cotton
> Polycotton
> Viscose/Rayon
> Linen

Potential substrate:
> Nylon/Nylon Lycra
> Polyester
> Silk
> Wool

REACTIVE

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

Recommended substrate:
> Cotton
> Viscose/Rayon
> Linen

Potential substrate:
> Nylon/Nylon Lycra
> Silk
> Wool

ACID

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

Recommended substrate:
> Nylon/Nylon Lycra
> Silk
> Wool

DISPERSE

■ Black
■ Cyan
■ Magenta
■ Yellow
■ Orange
■ Red
■ Violet
■ Light Black

Recommended substrate:
> Polyester

Potential substrate:
> Nylon/Nylon Lycra



Advanced inkjet printing technology

- > Variable drop – from 4 pl to 72 pl (2.656 nozzles – 2 colours – resolution up to 1200 dpi)

Cutting-edge pigment inks

- > 4/6/8 colours
- > Ink tank capacity: 5/10/20 kg/lt

Pioneering media feeding system

- > Rotary sticky belt
- > Advancement accuracy 40 microns

Dual-channel printheads

- > 2 colours for printhead enabling high print accuracy with smaller number of printheads

DST – Dynamic Stitching Technology for high-quality

- > Multi-pass printing

User-friendly touch panel and ethernet 1/10 GB interface

Low power consumption

Compact design and robust frame

Anti-mist technology & solvent-free printing

PERFORMANCE

PRINT SPEED

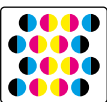
2x4 colours	up to 630 sqm/h
1 x8 and 1 x6 colours	up to 480 sqm/h

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

PRINthead CONFIGURATION

4 colours 8 colours

2xCMYK



16 heads / 4 row / 32 colour line

Ph Technology	Drop on-demand Piezo inkjet technology	
Printhead	Type	2.656 nozzles - 2 colours, water based
	Drop size	4pl to 72pl
	Number of printheads	16pcs
Printing Width	Max.	1800mm/2200mm
	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	4680 (W) x 2200 (D) x 2400 (H)mm	
Weight	3400kg (1850mm) - 3700kg (2200mm)	
Power	Voltage	400V ± 10%, 3 Phase + neutral + Earth, 32A
	Frequency	50-60Hz
	Power consumption	12kW – 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. 250L/h
Water	Water pressure	Min. 4bar max. 5bar
	Water flow rate	Max. 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

TWO PRINT WIDTHS

