# LAFORTE<sup>®</sup> 200 Fabric

### **Technical Specifications**

PrintheadType2.556 nozzle - 2 colour, Water basedPrintheadDrop Size4 pl to 72plNumber of printheads8pcsPrinting WidthMax.1800mmPrint ModeMax.100mmPrint ModeColouz 200, 900x600, 900x900 1200x1200, 900x600, 900x900 1200x120, 900x600, 900x900 1200x4FD 100	Ph Technology	Drop on-demand Piezo inkjet technology			
Drop Size     4p to 72pl       Number of printheads     8pcs       Printing Width     Max.     1800mm       Printing Width     Max.     100mm       Print Mode     Constant State St		Туре			
Printing WidthMax.1800mmPrint ModeMin.100mmPrint ModeResolution600×300, 600×600, 600×900, 200×1200, 900×600, 900×900 1200×1200Print ModePasses1/2/3/4/6/8 (uni and bi-directional)Print ModePasses1/2/3/4/6/8 (uni and bi-directional)Print ModeOperating temperature20°C to 30°C (68°F to 68°F)HumidityFrom 35% to 60% RH (no condensation)Recommended printing environmentTemperature 22°C to 28°C (71.6°F to 82.4°F) Humidity 40%Recommended Storage environment16°C to 38°C (60.8°F to 100.4°F) Store the printer filled with in Operating environmentInkTank Capacity5kg/10Kg/20KgInkaleph® inksAcid, Disperse, Reactive, Nano TX Pigment M22™Size4680 (W) × 1900 (D) × 2260 (H) mmWeight2700 kgPowerFrequency50-60HzPower consumption12 KW – average running consumption 6KwhCompressed AirAir supply qualityStandard ISO 8573.1 – class 2.4.3Air consumptionMax. 250 L/hWater flow rateMax. 250 L/hWater flow rateMax. 250 L/hWater flow rateMax. 250 L/hPeeding System (standard)Max. roll size Ø0.5mt diameter / 200KgFeeding System (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 200 KgTake Up unit (optional)Paraumatir roll har2 inch standard	Printhead	Drop Size	4pl to 72pl		
Printing Width     Min.     100mm       Print Mode     Resolution     600x300, 600x600, 600x900, 200x1200, 200x1200, 200x00, 200x00, 200x1200, 200x1200, 200x1200, 200x1200, 200x1200, 200x1200, 200x00, 200x00, 200x00, 200x1200, 200x		Number of printheads	8pcs		
Min.100mmPrint ModeResolution600x300, 600x600, 600x900, 600x1200x1200Passes1/2/3/4/6/8 (uni and bi-directional)Passes1/2/3/4/6/8 (uni and bi-directional)Passes1/2/3/4/6/8 (uni and bi-directional)Passes20°C to 30°C (68°F to 86°F)HumidityFrom 35% to 60% RH (no condensation)Environmental conditionsRecommended printing environmentRecommended Storage environment16°C to 38°C (60.8°F to 100.4°F) Store the printer filled with in Operating environmentInkQerating environmentTraditional place dust proof (50.8°F to 100.4°F) Store the printer filled with in Nano TX Pigment M22™Size4680 (W) × 1900 (D) × 2260 (H) mmWeight2700 kgPowerfrequencySize4680 (W) × 1900 (D) × 2260 (H) mmWeight2700 kgPower consumption12 KW – average running consumption 6KwhPower consumption12 KW – average running consumption 6KwhCompressed AirAir supply qualityStandard ISO 8573.1 – class 2,4,3Air consumptionMax. 250 L/hWater pressureMin. 4 bar max. 5barWater flow rateMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System (standard)Quert size ØFeeding System (optional)Max. roll size ØFaedung System (optional)Max. roll size ØTake Up unit (optional)Max. roll size ØAix coll size Ø0.5mt diameter / 1 tons	Dripting Width	Max.	1800mm		
Print ModeResolution600x1200, 900x600, 900x900 1200x1200Passes1/2/3/4/6/3 (uni and bi-directional)Appendix the example of the exa		Min.	100mm		
Passes(uni and bi-directional)Operating temperature20°C to 30°C (68°F to 86°F)HumidityFrom 35% to 60% RH (no condensation)Recommended printing environmentTemperature 22°C to 28°C (71.6°F to 82.4°F) Humidity 40%Recommended Storage environment16°C to 38°C (60.8°F to 100.4°F) Store the printer filled with in Operating environmentInkTank Capacity5kg/10Kg/20KgInkTank Capacity5kg/10Kg/20KgSize4680 (W) x 1900 (D) x 2260 (H) mmWeight2700 kgPower400 V ± 10%, 3 Phase + neutral + Earth, 32AFrequency50-60HzPower consumption12 KW - average running consumption 6KwhQuery consumption12 KW - average running consumption 6KwhWaterCompressed air supply8 barWaterWater pressureMin. 4 bar max. 5barWater QueryVoltage10.5mt diameter / 200KgBelt systemRotary Sticky beltMax. roll size ØFeeding System (standard)Max. roll size Ø1.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø1.5mt diameter / 200 Kg	Print Mode	Resolution	600x1200, 900x600, 900x900		
HumidityFrom 35% to 60% RH (no condensation)Environmental conditionsRecommended printing environmentTemperature 22°C to 28°C (71.6°E to 82.4°E) Humidity 40%Recommended Storage environment16°C to 38°C (60.8°E to 100.4°E) Store the printer filled with in Operating environment16°C to 38°C (60.8°E to 100.4°E) Store the printer filled with in Operating environmentInkTank Capacity5kg/10Kg/20KgInkTank Capacity5kg/10Kg/20KgInkTank Capacity5kg/10Kg/20KgSize4680 (W) x 1900 (D) x 2260 (H) mmWeight2700 kgPowerFrequency50-60HzPower consumption12 KW – average running consumption 6KwhCompressed AirCompressed air supply8 barCompressed AirAir supply qualityStandard ISO 8573.1 – class 2.4.3WaterWater pressureMin. 4 bar max. 5barWater flow rateMax. 250 L/hRectary Sticky belt21 ch standard (3 inch optional)Feeding System (standard)Max. roll size Ø0.5mt diameter / 200KgFeeding System (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 200 KgPagumatic roll bar (optional)2 inch standard (2 inch standard (2 inch standard)		Passes			
Humidity(no condensation)Environmental conditionsRecommended printing environmentTemperature 22°C to 28°C (71.6°F to 82.4°F) Humidity 40%Recommended Storage environment16°C to 38°C (60.8°F to 100.4°F) Store the printer filled with in Operating environmentInkOperating environmentTraditional place dust proofInkTank Capacity5kg/10Kg/20KgInkaleph® inksAcid, Disperse, Reactive, Nano TX Pigment M22°MSize4680 (W) x 1900 (D) x 2260 (H) mmWeight2700 kgYoltage400 V ± 10%, 3 Phase + neutral + Earth, 32APowerFrequency50-60HzPower consumption12 KW – average running consumption 6KwhCompressed AirCompressed air supply8 barCompressed AirAir supply qualityStandard ISO 8573.1 – class 2,4,3WaterWater pressureMin. 4 bar max. 5barWaterWater pressureMin. 4 bar max. 5barWater flow rateMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System (standard)Max. roll size Ø0.5mt diameter / 200KgPneumatic roll bar (optional)2 inch standard (3 inch optional)Faeulig System (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Pneumatic roll bar Pagumatic roll bar2 inch standard		Operating temperature	20°C to 30°C (68°F to 86°F)		
Environmental conditionsRecommended printing environment(71.6°F to 82.4°F) Humidity 40%Recommended Storage environment16°C to 38°C (60.8°F to 100.4°F) Store the printer filled with in Operating environmentInkTank Capacity5kg/10Kg/20KgInkTank Capacity5kg/10Kg/20KgInkaleph® inksAcid, Disperse, Reactive, Nano TX Pigment M22™Size4680 (W) × 1900 (D) × 2260 (H) mmWeight2700 kgPowerVoltage400 V ± 10%, 3 Phase + neutral + Earth, 32APowerCompressed air supply8 barPower consumption12 KW – average running consumption 6KwhCompressed AirAir supply qualityStandard ISO 8573.1 - class 2.4.3WaterWater pressureMin. 4 bar max. 5barWater flow rateMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System (optional)Max. roll size Ø0.5mt diameter / 200KgFeeding System (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Pneumatic roll bar2 inch standard (3 inch optional)Pagumatic roll bar (aptional)Lisch standardPagumatic roll bar (aptional)2 inch standard (3 inch optional)		Humidity			
Recommended Storage environment(60.8°F to 100.4°F) Store the printer filled with in Operating environmentTraditional place dust proof Skg/10Kg/20KgInkTank Capacity5kg/10Kg/20Kgaleph® inksAcid, Disperse,Reactive, Nano TX Pigment M22™Size4680 (W) x 1900 (D) x 2260 (H) mmWeight2700 kgPower400 V ± 10%, 3 Phase + neutral + Earth, 32APowerFrequency50-60HzPower consumption12 KW - average running consumption 6KwhCompressed AirCompressed air supply8 barAir supply qualityStandard ISO 8573.1 - class 2,4,3Air consumptionMax. 250 L/hWaterWater pressureMin. 4 bar max. 5barWaterWater flow rateMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System (standard)Max. roll size Ø0.5mt diameter / 200KgFeeding System (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 1 tons			(71.6°F to 82.4°F)		
InkTank Capacity5kg/10Kg/20KgInkaleph® inksAcid, Disperse,Reactive, Nano TX Pigment M22**Size4680 (W) x 1900 (D) x 2260 (H) mmWeight2700 kgPower400 V ± 10%, 3 Phase + neutral + Earth, 32APowerFrequency50-60HzPower consumption12 KW – average running consumption 6KwhCompressed AirCompressed air supply8 barAir supply qualityStandard ISO 8573.1 – class 2,4,3Air consumptionMax. 250 L/hWaterWater pressureMin. 4 bar max. 5barWaterWater pressureMin. 4 bar max. 5barBelt systemRotary Sticky beltFeeding System (standard)Pneumatic roll bar2 inch standard ( 3 inch optional )Feeding System (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 200 KgPneumatic roll bar2 inch standard ( 3 inch optional )					
InkAcid, Disperse, Reactive, Nano TX Pigment M22TMSize4680 (W) x 1900 (D) x 2260 (H) mmWeight2700 kgWeight2700 kgPowerVoltage400 V ± 10%, 3 Phase + neutral + Earth, 32APowerFrequency50-60HzPower consumption12 KW - average running consumption 6KwhCompressed AirCompressed air supply8 barAir supply qualityStandard ISO 8573.1 - class 2,4,3Air consumptionMax. 250 L/hWaterWater pressureMin. 4 bar max. 5barWaterWater pressureMin. 4 bar max. 5barBelt systemRotary Sticky beltFeeding System (standard)Max. roll size Ø0.5mt diameter / 200KgFeeding System (optional)Max. roll size Ø1.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 200 KgTake Up unit (optional)Pneumatic roll bar2 inch standardTake Up unit (optional)Pneumatic roll bar2 inch standard		Operating environment	Traditional place dust proof		
aleph® inksAcid, Disperse, Reactive, Nano TX Pigment M22TMSize4680 (W) × 1900 (D) × 2260 (H) mmWeight2700 kgPower2700 kgPower400 V ± 10%, 3 Phase + neutral + Earth, 32APower50-60 HzPower consumption12 KW - average running consumption 6KwhCompressed AirCompressed air supply8 barCompressed AirAir supply qualityStandard ISO 8573.1 - class 2,4,3Air consumptionMax. 250 L/hWaterWater pressureWater flow rateMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System (standard)Max. roll size Ø0.5mt diameter / 200KgFeeding System (optional)Max. roll size Ø0.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 200 KgTake Up unit (optional)Pagumatic roll bar2 inch standardTake Up unit (optional)Pagumatic roll bar2 inch standardPresumatic roll bar2 inch standard		Tank Capacity	5kg/10Kg/20Kg		
Weight2700 kgWeight2700 kgPowerVoltageFrequency50-60HzPower consumption12 KW – average running consumption 6KwhCompressed AirCompressed air supply8 barCompressed AirAir supply qualityStandard ISO 8573.1 – class 2.4,3Air consumptionMax. 250 L/hWaterWater pressureWater flow rateMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System (standard)Max. roll size ØPneumatic roll bar (optional)2 inch standard (3 inch optional)Take Up unit (optional)Max. roll size ØTake Up unit (optional)Max. roll size ØDenumatic roll bar Denumatic roll bar2 inch standard 2 inch standard (3 inch optional)Take Up unit (optional)Pneumatic roll bar Prequentic roll bar2 inch standard 2 inch standard (2 inch standard (2 inch standard (2 inch standard (2 inch standard (2 inch standard (2 inch standard	Ink	aleph <sup>®</sup> inks	Acid, Disperse,Reactive, Nano TX Pigment M22™		
Voltage400 V ± 10%, 3 Phase + neutral + Earth, 32APowerFrequency50-60HzPower consumption12 KW - average running consumption 6KwhCompressed air supply8 barCompressed AirCompressed air supply8 barAir supply qualityStandard ISO 8573.1 - class 2,4,3Air consumptionMax. 250 L/hWaterWater pressureMin. 4 bar max. 5barWaterWater flow rateMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System 	Size	4680 (W) × 1900 (D) × 226	60 (H) mm		
PowerVoitageneutral + Earth, 32APowerFrequency50-60HzPower consumption12 KW - average running consumption 6KwhCompressed air supply8 barCompressed air supply qualityStandard ISO 8573.1 - class 2,4,3Air consumptionMax. 250 L/hWaterWater pressureWater flow rateMax. 50 - 100 litres per hourBelt system (standard)Rotary Sticky beltFeeding System (standard)Max. roll size ØFeeding System (optional)Max. roll size ØTake Up unit (optional)Max. roll size ØTake Up unit (optional)Max. roll size ØDenumatic roll bar (optional)2 inch standard (2 inch standard	Weight	2700 kg			
It is the province of the provincing on the provincing of the provincign of the provincign o		Voltage			
Power consumptionconsumptioncompressed AirCompressed air supply8 barAir supply qualityStandard ISO 8573.1 – class 2,4,3Air consumptionMax. 250 L/hWaterWater pressureMin. 4 bar max. 5barWaterWater pressureMax. 50 -100 litres per hourBelt systemRotary Sticky beltFeeding System (standard)Max. roll size Ø0.5mt diameter / 200KgFeeding System (optional)Max. roll size Ø1.5mt diameter / 1 tonsTake Up unit (optional)Max. roll size Ø0.5mt diameter / 200 KgTake Up unit (optional)Pneumatic roll bar2 inch standard 2 inch standard 2 inch standard	Power	Frequency	50-60Hz		
Compressed Air   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   Water flow rate   Max. 50 -100 litres per hour     Belt system   Rotary Sticky belt   Max. roll size Ø     Feeding System (standard)   Max. roll size Ø   0.5mt diameter / 200Kg     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     Pneumatic roll bar   2 inch standard     Take Up unit (optional)   Pneumatic roll bar   2 inch standard		Power consumption			
Compressed Air   Air supply quality   class 2,4,3     Air consumption   Max. 250 L/h     Water   Water pressure   Min. 4 bar max. 5bar     Water   Water flow rate   Max. 50 -100 litres per hour     Belt system   Rotary Sticky belt     Feeding System (standard)   Max. roll size Ø   0.5mt diameter / 200Kg     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)   1.5mt diameter / 200 Kg		Compressed air supply	8 bar		
Water Water pressure Min. 4 bar max. 5bar   Water Water flow rate Max. 50 - 100 litres per hour   Belt system Rotary Sticky belt Max. 50 - 100 litres per hour   Feeding System (standard) Max. roll size Ø 0.5mt diameter / 200Kg   Feeding System (optional) Max. roll size Ø 1.5mt diameter / 1 tons   Feeding System (optional) Max. roll size Ø 0.5mt diameter / 200 Kg   Take Up unit (optional) Pneumatic roll bar 2 inch standard   Pneumatic roll bar 2 inch standard 2 inch standard	Compressed Air	Air supply quality			
Water Water flow rate Max. 50 - 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   Pneumatic roll bar 2 inch standard		Air consumption	Max. 250 L/h		
Water flow rate Max. 50 - 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   Pneumatic roll bar 2 inch standard	\\/_+	Water pressure	Min. 4 bar max. 5bar		
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) 200 Kg	vvater	Water flow rate	Max. 50 -100 litres per hour		
Feeding System (standard) 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   Take Up unit (optional) Pneumatic roll bar 2 inch standard	Belt system	Rotary Sticky belt			
(standard) 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		Max. roll size Ø	0.5mt diameter / 200Kg		
(optional) Max. roll size Ø 1.5mt diameter / 1 tons Take Up unit (optional) Pneumatic roll bar 2 inch standard		Pneumatic roll bar			
Take Up unit (optional) Pneumatic roll bar 2 inch standard		Max. roll size Ø 1.5mt diameter / 1 ton			
(optional) 2 inch standard		Max. roll size Ø	1.5mt diameter / 1 tons		
	(optional)				

## aleph<sup>®</sup> inks

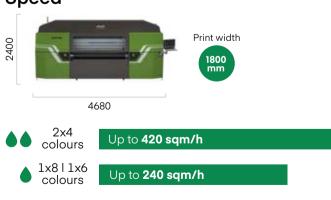
Substrate Compatibility

		F	Pigment	Reactive	Aci	d D	isperse
Nylon			0	0	•	I.	0
Nylon Ly	/cra		0	0	•		0
Polyeste	er		0				•
Silk			0	0	•		
Cotton			•	٠			
Polycott	on		•				
Viscose	/Rayon		•	•			
Linen			•	٠			
Wool			0	0	•		
Ink Colou	<u>ır</u>			•Rec	commende	d Use I o Po	otential Use
Pigment in	iks	_		_	_	_	_
Black	Cyan	Magenta	- Yellow	Orange	Green	Red	• Violet
Reactive							
$\bullet$			•	•			
Black	Cyan	Magenta	Yellow	Red	Orange	Blue	Light Black
Acid							Black
$\bullet$			•				
Black	Cyan	Magenta	Yellow	Red	Orange	Blue	Light Black
Disperse							
$\bullet$						•	
Black	Cyan	Magenta	Yellow	Violet	Red	Orange	Grey
BEACH	OEK	O-TEX®	C		ALEPH WALER REDUCTION	Se HKS	LDGRYDE

4 colours	8 colours
2xCMYK	

8 heads / 2 row / 16 colour line

# Speed



\* 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**

- Superior Productivity

#### Superior Printing Quality

- multi-pass printing

### V Dual-Channel Printheads

- Drastically reduced maintenance costs due to the smaller

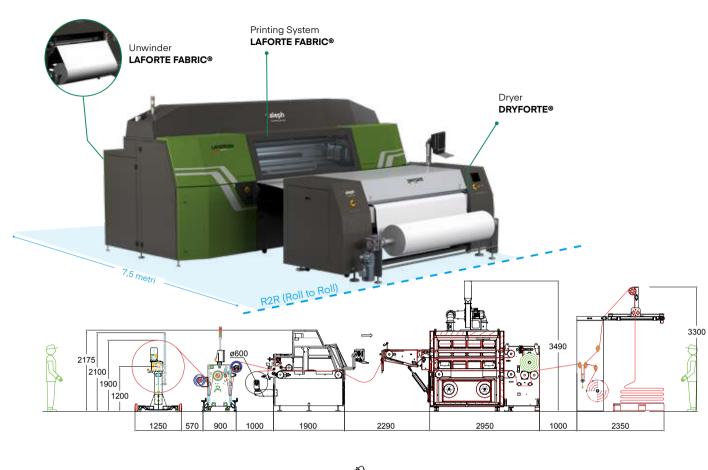
#### V Pioneering Media Feeding System

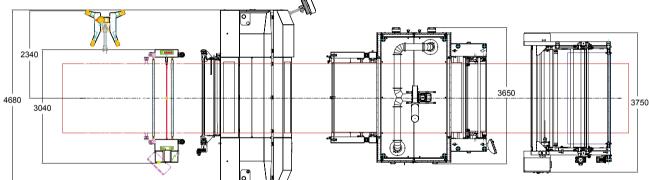
- Rotary sticky belt
- Advancement accuracy 40 microns
- superior quality
- Extremely low energy consumption reducing overall sustainable impact



Compact design and robust frame

# **Integrated Production Line**





Full-line 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. 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<sup>®</sup> Series

# LAFORTE<sup>®</sup>340 LAFORTE<sup>600</sup>

# A Must-have Solution for Mid to **High Print Volumes**



A Durst Group Company