

# JAVELiN

# Beyond limitations.



#### SPGPrints B.V. (headoffice)

Raamstraat 1-3  
5831 AT Boxmeer  
P.O. Box 67  
5830 AB Boxmeer  
The Netherlands  
+ 31 (0) 485 599 555  
info@spgprints.com  
www.spgprints.com

The data in this brochure was valid at the time of publishing and is subject to change without notice. SPGPrints reserves the right to modify its products at any time without further obligation.

spgprints®

A reliable  
textile printer  
to meet your  
customers'  
quality  
standards



# Introducing JAVELIN.

**JAVELIN®: a first step into digital production  
or a step up to high performance**

The JAVELIN printer from SPGPrints offers unsurpassed quality and value to textile printers who are taking the first step into digital production. It also offers a step up to high-performance, high-quality production for printers who wish to develop their digital capabilities further. JAVELIN uses several printing modes and 36 FUJIFILM Dimatix Samba print heads with a resolution of 1200 dpi. SPGPrints worked with Dimatix to develop specially modified print heads, user-friendly electronics, and a specialised ink conditioning and ink delivery system called 'Archer® technology'. Apart from ease, accuracy and productivity, JAVELIN offers flexibility and may be used with reactive, disperse or acid inks and different drying methods.

## **Save time, space and money**

Digital printing has many benefits. It makes short-run, fast-turnaround jobs affordable for customers and profitable for printers. It eliminates screen preparation time and makes more time available for printing full production runs on screen printing lines. With an annual output up to 2 million metres, JAVELIN is both a workhorse and a sprinter.

**JAVELIN**



# Everything is possible.

Affordable quality is the demand today, and JAVELIN makes that possible.

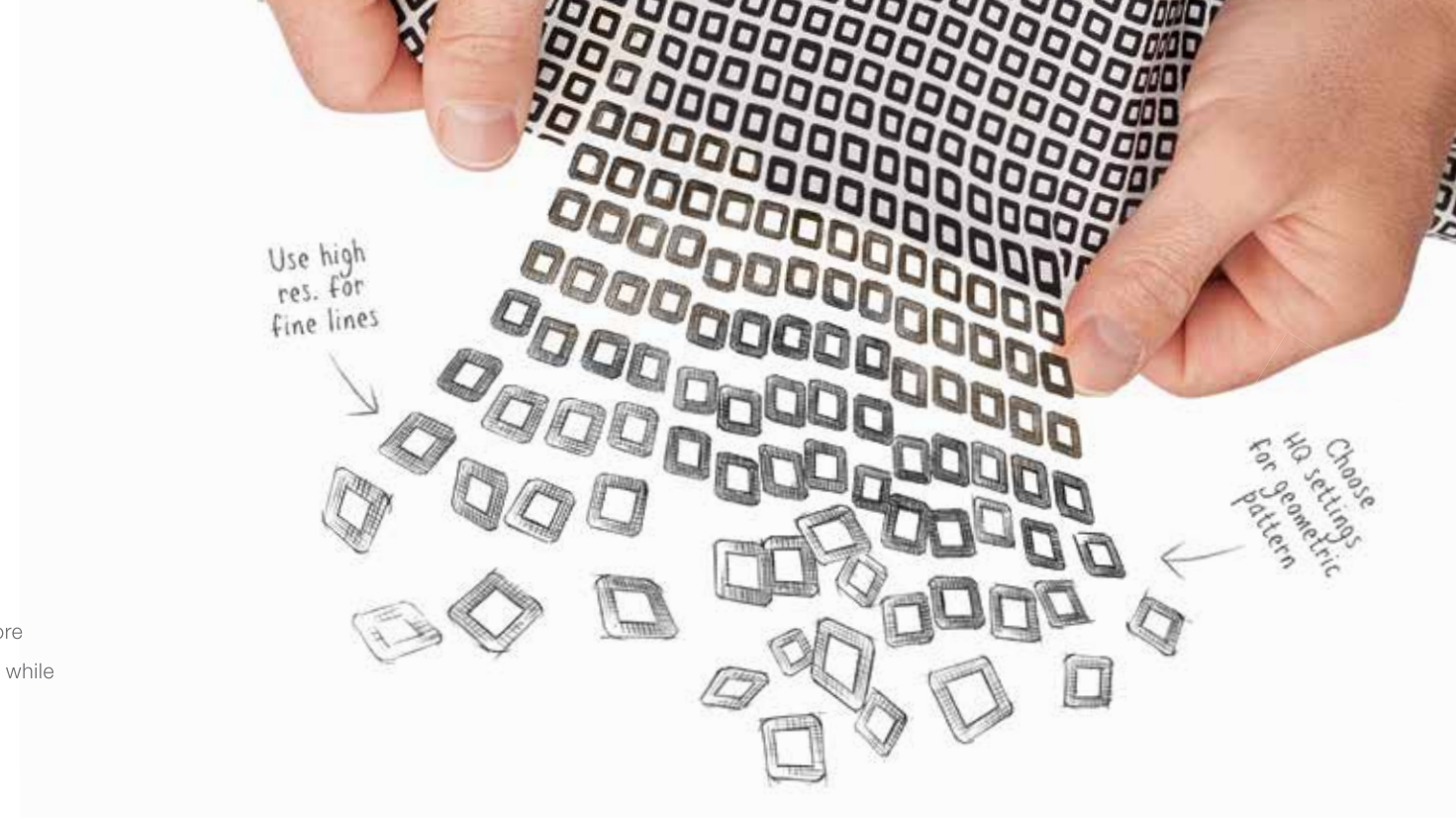
Open creative possibilities with the wide range of substrates that can be printed by JAVELIN: sublimation papers, natural fibres, polyester, lycra, wool, silk and even polyesters. Blotches, fine lines, geometric designs and intense colours can all be printed thanks to variable ink drop technology.

- **Uninterrupted printing** of multiple jobs on the same substrate
- **Fast, cost-effective production** of multiple variations for sample and production runs
- **Print placement** for accurate replication of designs no matter what the garment size
- **Reduced ownership costs** through the Archer Print Head Program for full control of print head performance and costs

The digital printing power of the JAVELIN printer can make your whole workflow more efficient by eliminating bottle-necks and improving the capacity of your screen lines while meeting customer demands for smaller, urgent jobs.



Ensure smooth gradients



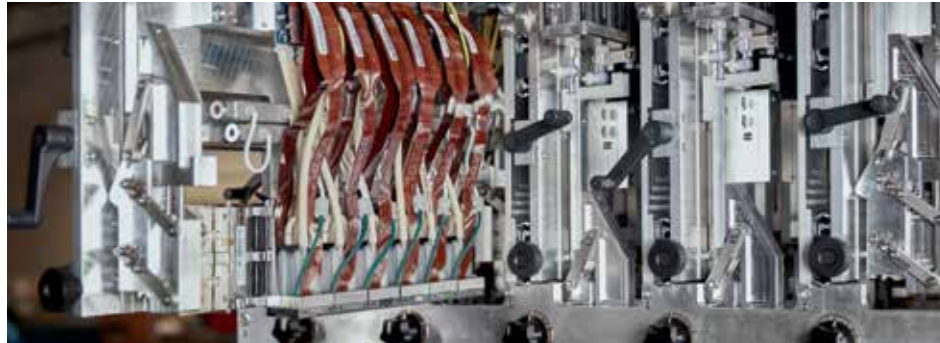
**JAVELIN**



# Archer inkjet technology.

**JAVELIN is based on Archer technology for high resolution, large drop-size range and high jetting frequencies.**

The Archer technology offers both precision and a significantly greater jetting distance than is possible with other heads widely used in current digital-textile applications. Head plates in the Archer print bar are situated 4mm from the substrate surface, compared to the typical 1.5 mm nozzle-fabric distance offered by alternative print heads. The longer jetting distance greatly reduces the risk of 'head strike', which can damage these expensive components. It also eliminates the need for 'neat edges' for most fabrics, as required in all digital printing systems today. These advantages allow SPGPrints to offer the 'Archer Print Head Program'. This eliminates the typical print head headaches known today such as high costs and unpredictable failures. Archer technology assures fine line detail, blotches and tonal curves, thanks to its high resolution, large drop-size range and high jetting frequencies.



## Breakthrough in image quality

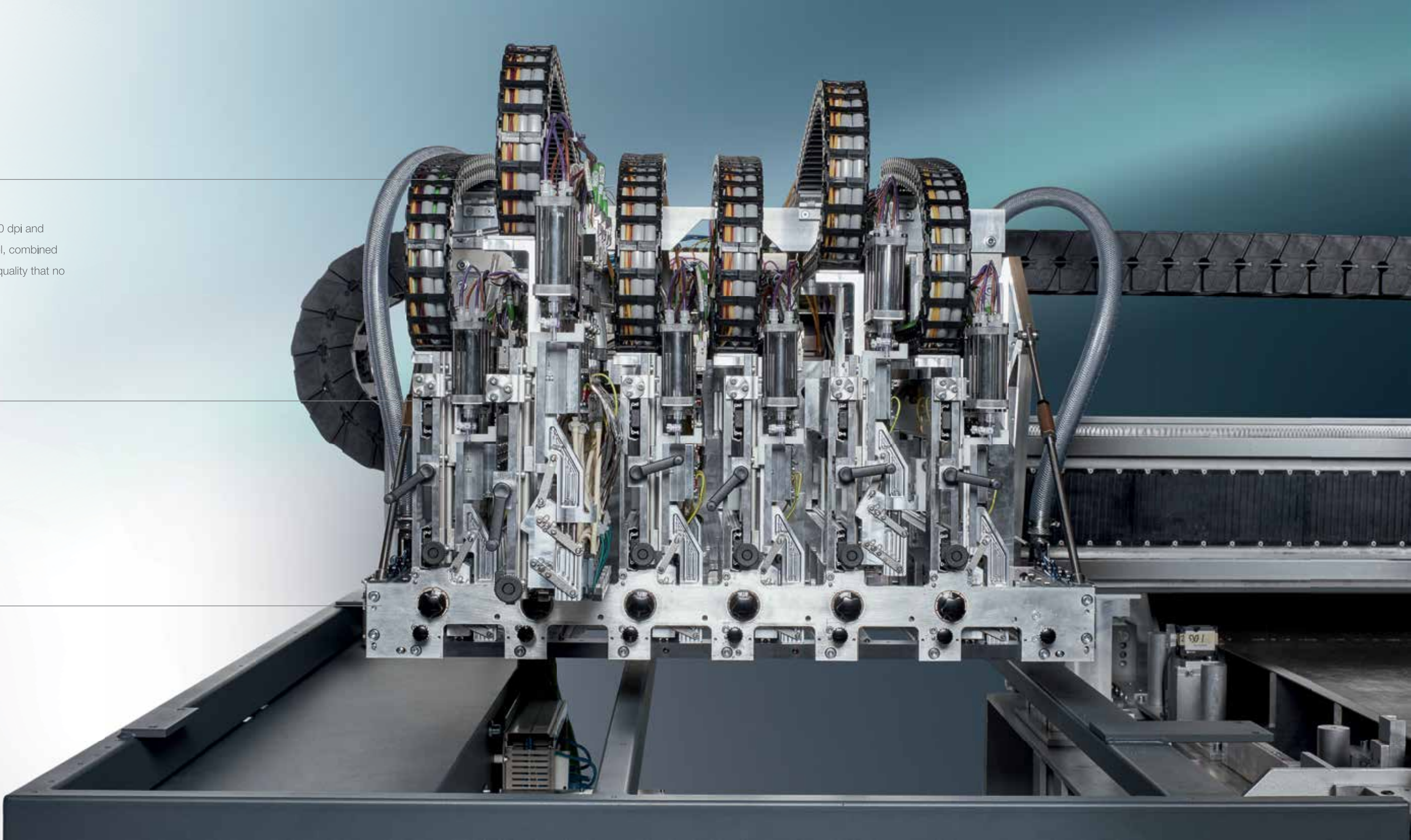
The native print head resolution of 1200 dpi and variable drop-sizes between 2pl to 10pl, combined with JAVELIN inks, give you an image quality that no other digital printer can match.

## Archer print bar

The Archer print bar jets the ink from a longer distance than traditional print heads. This also allows you to print on a wide range of fabrics, including non-flat fabrics.

## Maintenance

Patented robust low-maintenance capping & wiping technology for extended print head lifetime.





# A complete digital printing line.



Full stain-free control over fabric motion from infeed to outfeed.

#### Freedom in woven and knitted fabrics

Both the infeed and outfeed are configured to allow maximum freedom in choice of fabrics, from traditional cotton and viscose to the most modern polyester fabrics.

#### User-determined drying

The JAVELIN printer is a complete system, designed and engineered to make a complete solution. All elements are made to work together: print heads, inks, substrate conveyor, and dryer. However, within this system, there are options for ink (reactive, disperse or acid), and drying (gas or electric).

With the JAVELIN printer from SPGPrints, configuring the right combination for your requirements is possible without compromising results.

- **Infeed and outfeed** for maximum flexibility in woven and knitted fabrics.
- **Three-pass multi-sectional dryer** for optimized drying of natural fabrics and man-made fabrics.

**JAVELIN**



# Precision digital inkjet for medium volumes.

JAVELIN uses SPGPrints inks. These inks are optimised for Archer technology and, with only six colours, offer a colour gamut that exceeds the HD-gamut of today's digital textile printing solutions.

Furthermore, the inks – delivered in variable drops of 2-10 picolitres – offer excellent runnability. Printers using JAVELIN will enjoy uninterrupted production cycles, improved throughput and reduced ink waste for maintenance, which can lead to lower production costs and improved margins.

By running inks that are designed especially for your printer, the maximum benefits can be realised. Achieve more with inks that give the edge in quality, costs and design creativity.

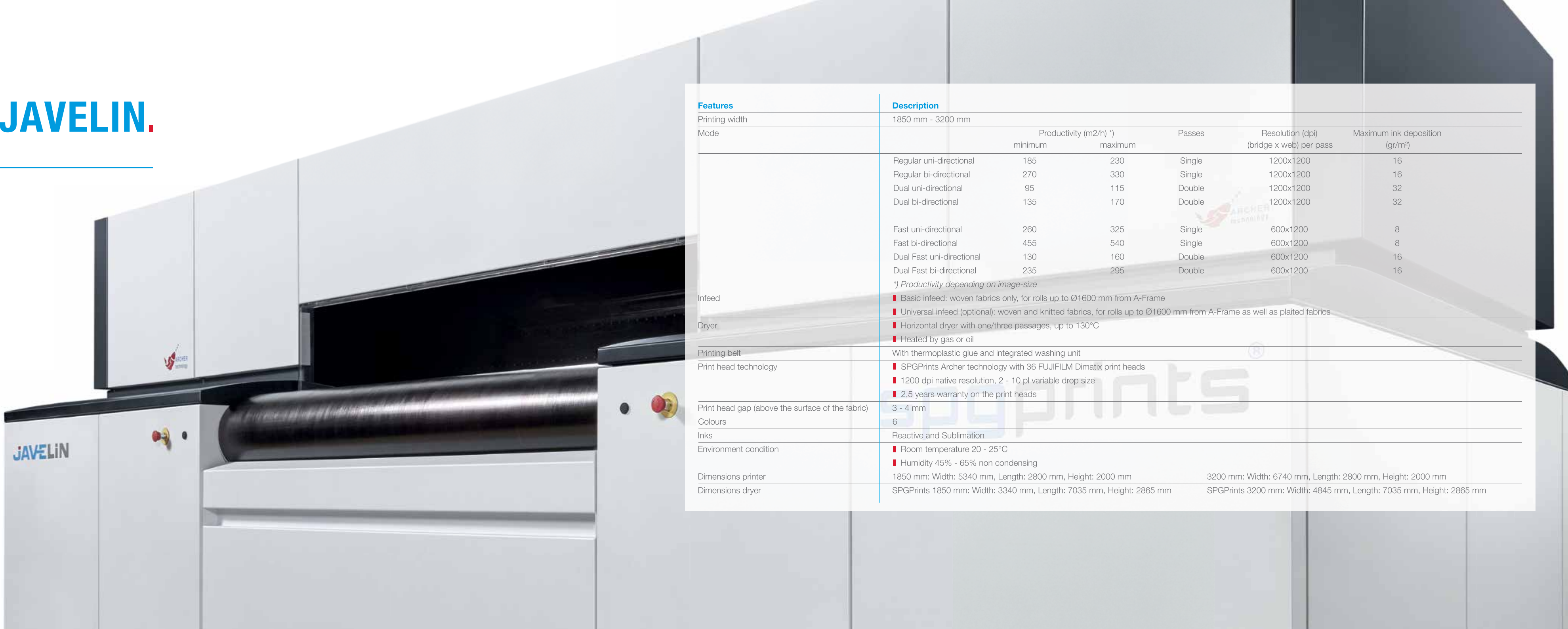
- **High density** and wider colour gamut
- **Superior** runnability
- **Complete** range of inks
- **Competitive** edge in quality, costs and design creativity





# Technical data JAVELIN.

The most innovative printer in the market



Features	Description					
Printing width	1850 mm - 3200 mm					
Mode		Productivity (m2/h) *)		Passes	Resolution (dpi) (bridge x web) per pass	Maximum ink deposition (gr/m²)
		minimum	maximum			
	Regular uni-directional	185	230	Single	1200x1200	16
	Regular bi-directional	270	330	Single	1200x1200	16
	Dual uni-directional	95	115	Double	1200x1200	32
	Dual bi-directional	135	170	Double	1200x1200	32
	Fast uni-directional	260	325	Single	600x1200	8
	Fast bi-directional	455	540	Single	600x1200	8
	Dual Fast uni-directional	130	160	Double	600x1200	16
	Dual Fast bi-directional	235	295	Double	600x1200	16
	*) Productivity depending on image-size					
Infeed	<div><div></div> Basic infeed: woven fabrics only, for rolls up to Ø1600 mm from A-Frame</div> <div><div></div> Universal infeed (optional): woven and knitted fabrics, for rolls up to Ø1600 mm from A-Frame as well as plaited fabrics</div>					
Dryer	<div><div></div> Horizontal dryer with one/three passages, up to 130°C</div> <div><div></div> Heated by gas or oil</div>					
Printing belt	With thermoplastic glue and integrated washing unit					
Print head technology	<div><div></div> SPGPrints Archer technology with 36 FUJIFILM Dimatix print heads</div> <div><div></div> 1200 dpi native resolution, 2 - 10 pl variable drop size</div> <div><div></div> 2,5 years warranty on the print heads</div>					
Print head gap (above the surface of the fabric)	3 - 4 mm					
Colours	6					
Inks	Reactive and Sublimation					
Environment condition	<div><div></div> Room temperature 20 - 25°C</div> <div><div></div> Humidity 45% - 65% non condensing</div>					
Dimensions printer	1850 mm: Width: 5340 mm, Length: 2800 mm, Height: 2000 mm			3200 mm: Width: 6740 mm, Length: 2800 mm, Height: 2000 mm		
Dimensions dryer	SPGPrints 1850 mm: Width: 3340 mm, Length: 7035 mm, Height: 2865 mm			SPGPrints 3200 mm: Width: 4845 mm, Length: 7035 mm, Height: 2865 mm		

# SPGPrints is a full-service systems and application provider

All you need in printing

## SPGPrints - All you need in printing

SPGPrints is a total systems supplier to the textile, label and industrial printing markets, providing pre-press systems, printing machines and consumables for the rotary screen and inkjet workflow. SPGPrints' focus is offering optimum productivity, low total cost of ownership and precision quality at every step of the workflow, combined with the potential for creativity on the widest range of fabrics. SPGPrints offers a comprehensive program of rotary screens and lacquers.

Electroformed seamless nickel cylinders assure stability and smoothest printing results compatible with all paste types, and achieve the top results with all possible textile applications. For pre-press, SPGPrints' conventional exposure and laser engraving systems ensure high-quality imaging of rotary screen cylinders. Laser engraving systems offer a fast, single-step, eco-friendly, pure digital approach to imaging.

## Leading digital textile printing

SPGPrints is the pioneer in digital textile printing and, 25 years on, remains at the forefront in developing the process.

The company is driving the mainstream adoption of digital process with the introduction of the single-pass digital printer, PIKE, and the multiple-pass JAVELIN, both based on Archer technology.

SPGPrints' proprietary inkjet inks achieve the industry's highest runnability levels. They are available in four chemistries that, together, offer excellent results on sublimation papers, natural fibres, polyester, lycra, wool and silk. Through continuous innovation, a global distribution network, and subsidiary companies in the USA, Brazil, Mexico, Pakistan, India, China, and Turkey, SPGPrints adds significant value to its customers' processes and products.

