

PIKE

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

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spgprints®

Introducing PIKE.

PIKE®: a new performance standard for Single-Pass Digital Textile Printing.

With its industry-leading speeds, precision geometrics, fast throughput and low running costs, the PIKE Digital Printing Line represents a new performance benchmark for textile printing.

PIKE is based on a full-width array of Fujifilm Samba print elements, specially modified in a joint project for optimum performance in textile printing. These elements are incorporated in a highly accurate but user-friendly print-bar technology, including specialised electronics as well as an ink conditioning and ink delivery system, called 'Archer®'.

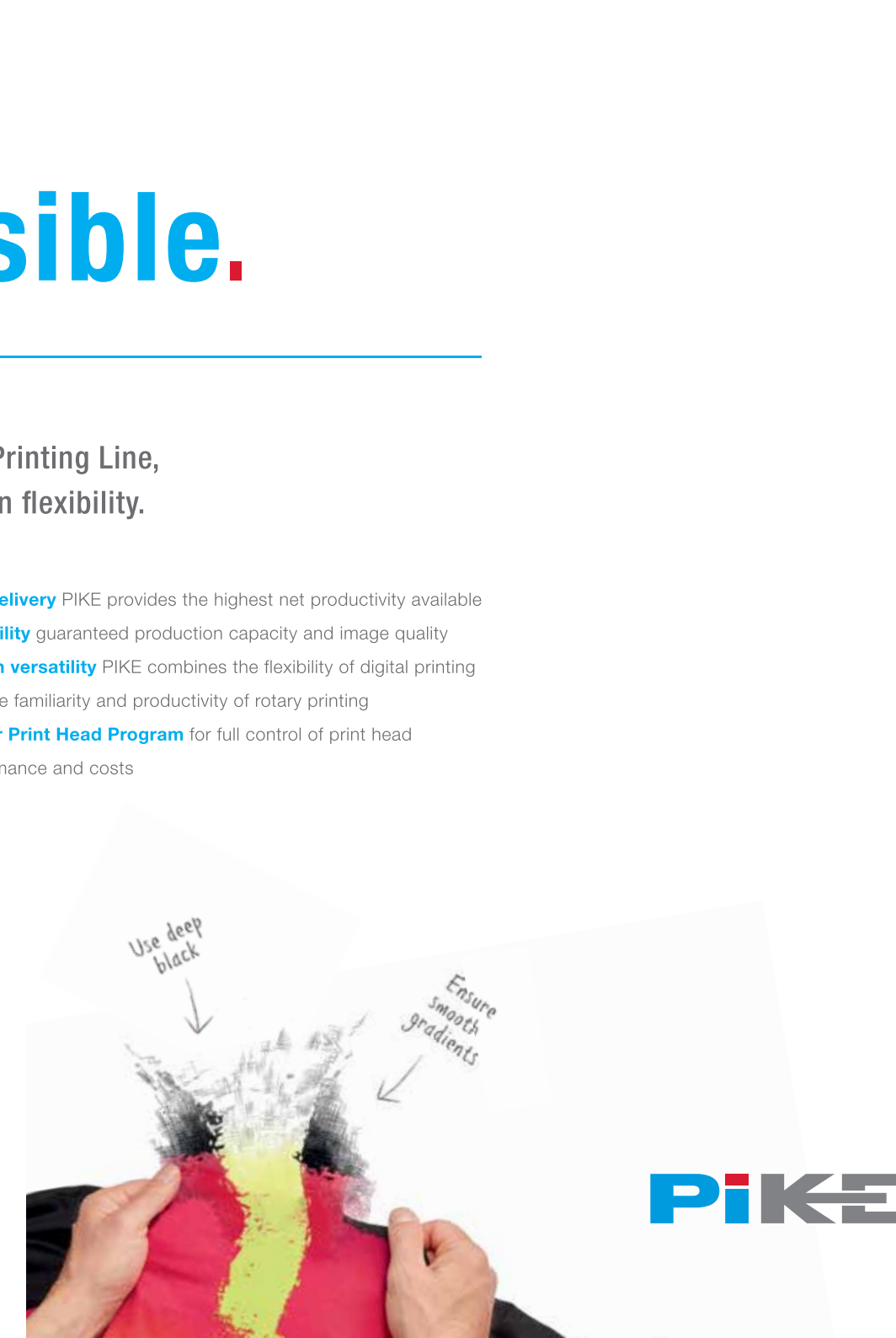
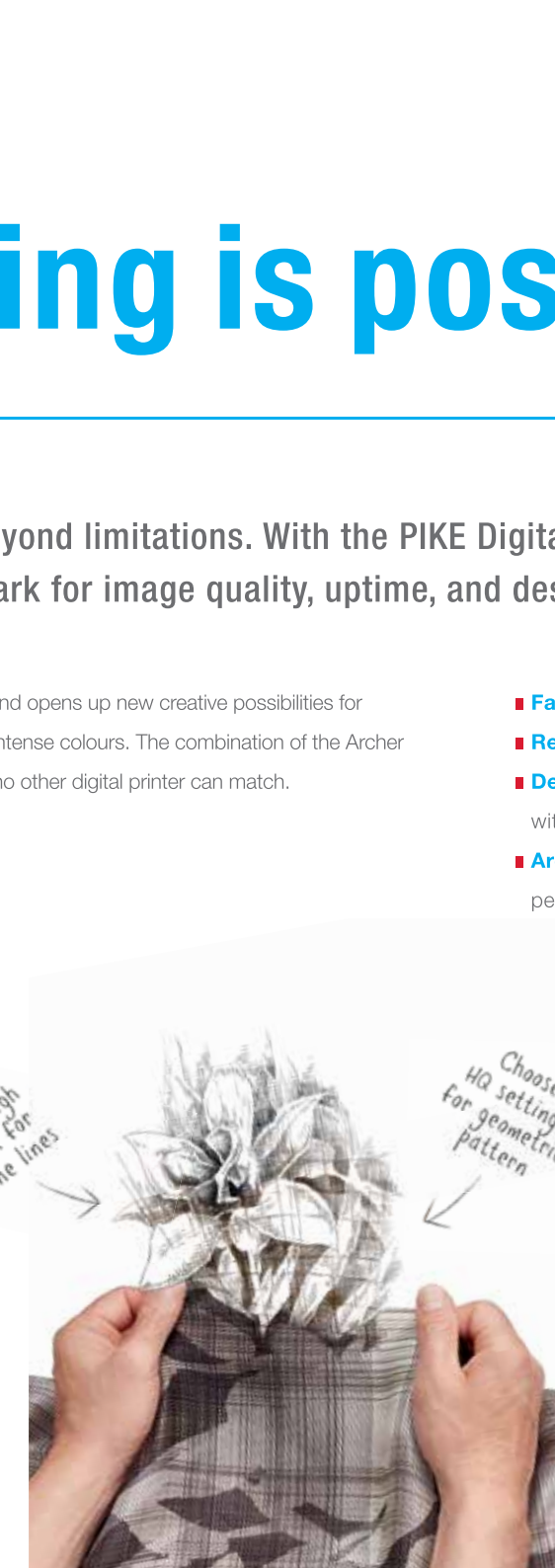
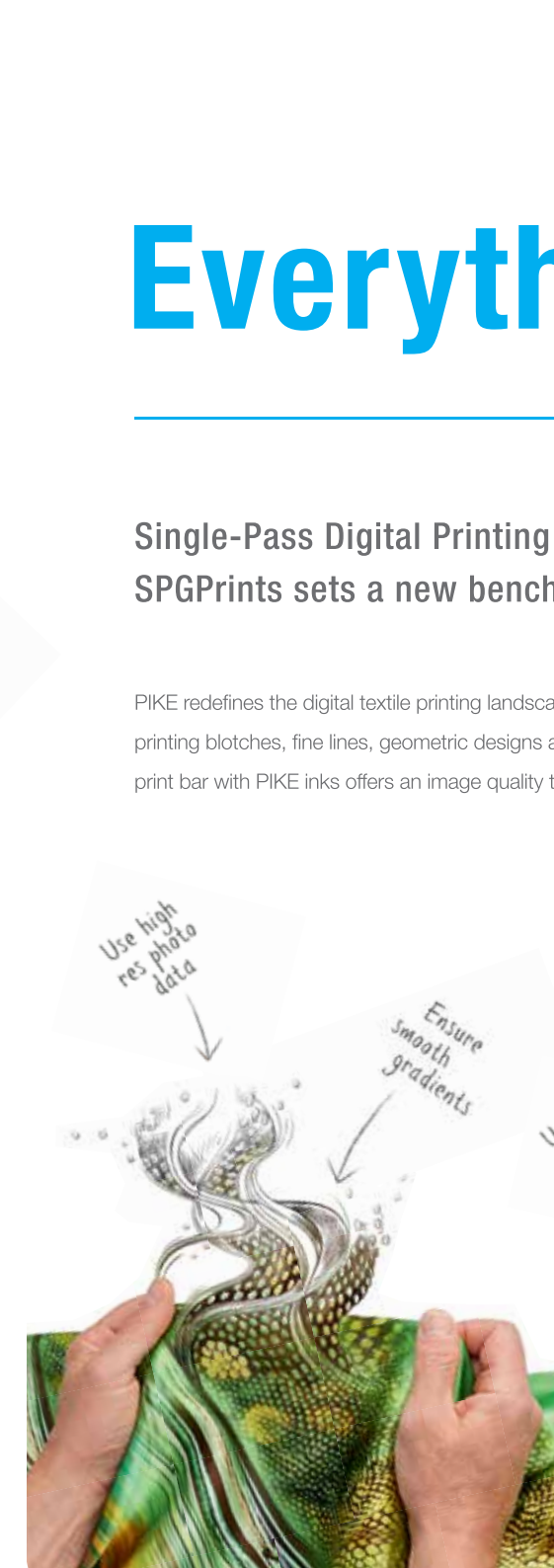
It is optimized for using PIKE inks, a new range of high performance inks that are specifically developed for maximum print quality and uptime.



Smoothest transition

Mixing and matching the flexibility of digital printing with the familiarity of rotary printing is now possible. We offer you the same or smaller footprint as in rotary, an ergonomic way of operating, and the best service in the industry through the worldwide presence of SPGPrints. This means that PIKE digital printing gets you up and running faster and smoother than any other option on the market today.

PIKE



Everything is possible.

Single-Pass Digital Printing beyond limitations. With the PIKE Digital Printing Line, SPGPrints sets a new benchmark for image quality, uptime, and design flexibility.

PIKE redefines the digital textile printing landscape and opens up new creative possibilities for printing blotches, fine lines, geometric designs and intense colours. The combination of the Archer print bar with PIKE inks offers an image quality that no other digital printer can match.

- **Fast delivery** PIKE provides the highest net productivity available
- **Reliability** guaranteed production capacity and image quality
- **Design versatility** PIKE combines the flexibility of digital printing with the familiarity and productivity of rotary printing
- **Archer Print Head Program** for full control of print head performance and costs

PIKE

Archer® inkjet technology.

PIKE 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 possible with other heads widely used in current digital-textile applications. Head plates in the Archer print bar are situated 4 mm away from the substrate surface, compared with 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', in combination with the use of PIKE inks. This eliminates the typical printhead 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.



Maintenance

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



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.

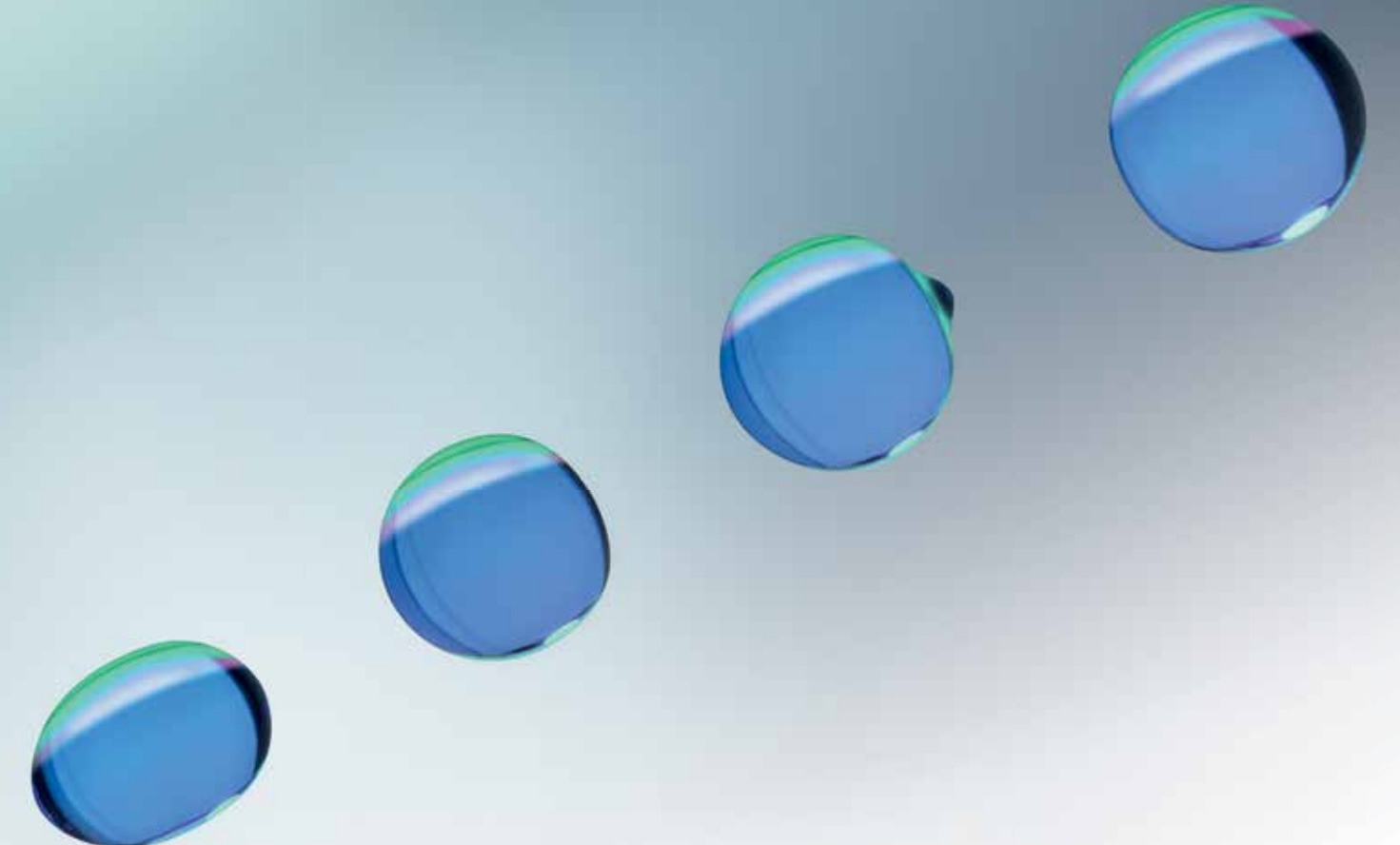
Better performance with PIKE inks.

PIKE inks are optimised for the PIKE Digital Printing Line and, with only six colours, offer a colour gamut that exceeds the HD-gamut of today's digital textile printing solutions.

Furthermore, PIKE inks offer excellent runnability. This results in uninterrupted production cycles, improved throughput and reduced ink waste for maintenance, which in turn lead to lower production costs. Besides deep black, the range comprises magenta, yellow, cyan, grey, orange and blue.

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



PIKE

Complete Single-Pass Digital Printing Line.

Industry standard fabric in- and outfeed

Customized infeed and outfeed options for maximum flexibility in woven and knitted fabrics.

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

Freedom in choice of fabrics

Both the infeed and outfeed can be configured to allow maximum freedom in choice of fabrics, from traditional cotton and viscose to the most modern polyester fabrics. Fabric is fed through center driven small and big rolls, also suitable for A-frames. The curved heated plate heats up the fabric to achieve a better attachment to the thermoplastic layer on the belt.

Versatile dryer

A two-section gas heated dryer with a wide temperature range can be driven in one or three passages. The modular design allows (retrofit) extension up to four sections. The dryer is optimized for drying digital printed fabrics with low-energy consumption drying modules. This state-of-the-art engineering ensures unrivalled silent operation.

Economical dryer

Three pass multi-sectional dryer for optimised drying of natural fabrics and man-made fibres.

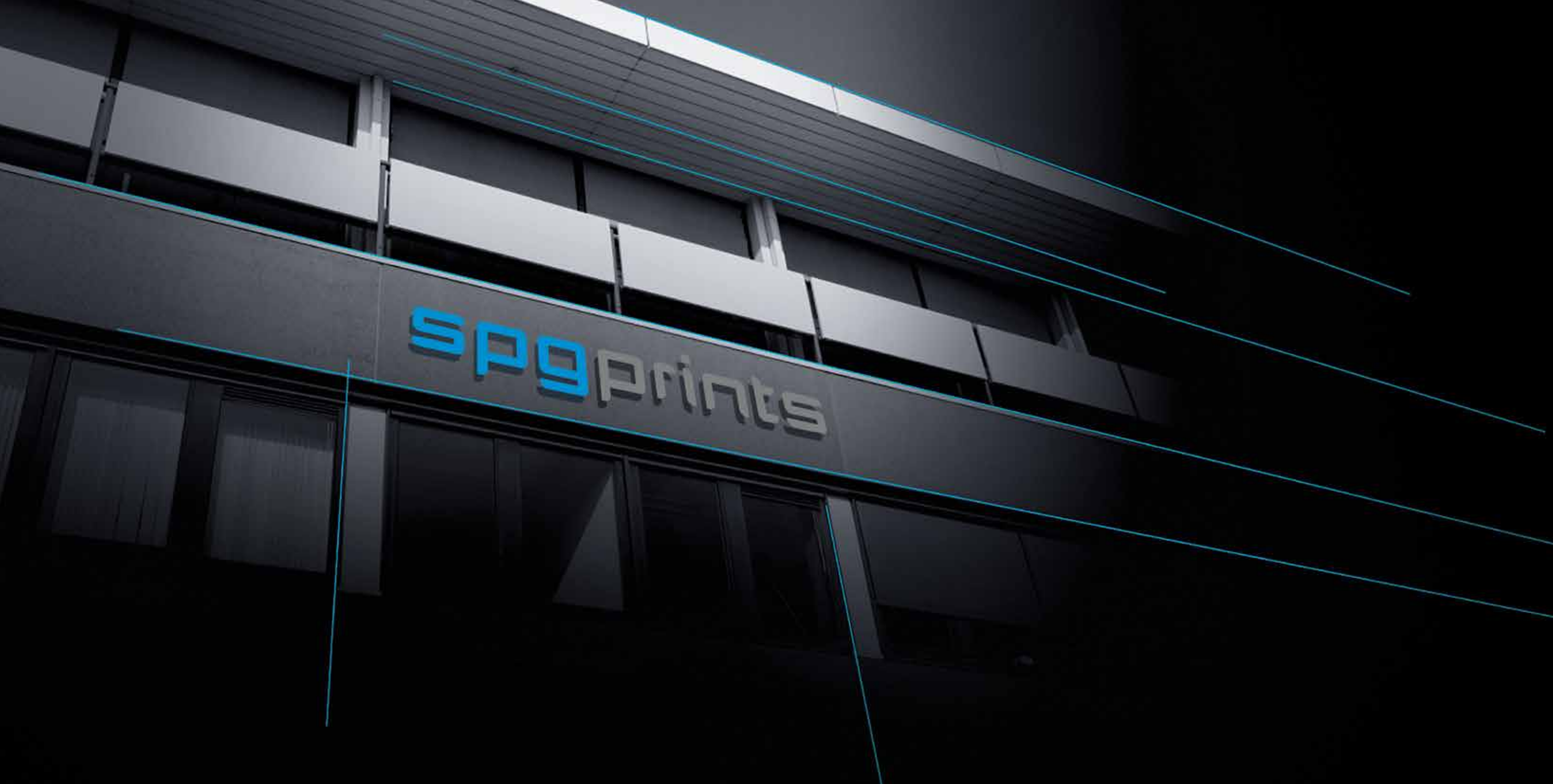
PIKE

Technical data PIKE.

Features	Description
Printing method	Single-Pass inkjet printer
Print heads	The basic PIKE has 6 - 9 printing stations each containing 43 print heads with Archer technology to achieve excellent and precise printing quality
Ink system	Open ink system with inline degassing units, 25 kg ink per can
Print heads level	3 mm - 5 mm from substrate
Print heads cleaning	Patented touchless cleaning cycle by automatic purge
Print resolution	1200 x 1200 dpi
Drop size	2 - 10 picoliter variable drop size
Printing speed	3 - 40 m/min (electronically limited)
Fabric feed system	Center driven unwinding for big rolls with maximum Ø1800 mm. The infeed is suitable for A-frames
A-frame	Center driven unwinder for small rolls with a maximal Ø600 mm including control, electrical parts and one movable motor
Fabric rolls	Easy to change quickly from A-frame to small roll. For big rolls the maximum weight is 1500 kg, for small rolls the maximum weight is 500 kg
Dimensions	Approximately 26 m x 10 m x 5 m (LxWxH) (6 color PIKE)
Noise level	Less than 80 dB(A)
Operating environment	Room temperature 20 - 25°C, Humidity 45% - 65% non condensing
Peak power consumption	160 kWh
Humidity	45% - 65% RH

Features	Description
Fabrics	Maximum fabric width 1950 mm, netto print width 1850 mm. Fabric thickness range up to 3 mm thickness, 30-350 g/m²
Inks	Reactive C, M, Y, Deep Black, Orange, Blue, Red, Grey and Penetration fluid for expanding up to 9 colors
RIP software	RIP software used for PIKE is Printserver 8 where it is possible to work with TIFF RGB files, other third party RIP software on request
User interface	Touch screen
Dryer	2 section gas heated dryer, with possibilities to choose a 3 or 4 section dryer including a frequency controlled exhaust fan for the selected dryer. The drying temperature range is between 70°C and 150°C in one or three passages

Options	Description
Inks	Reactive and Sublimation
Colours	6 - 9
Dryer	2 - 4 drying sections
In- outfeed	Several in- and outfeed options



SPGPrints - All you need in printing

SPGPrints is a total systems supplier to the textile printing and coating industry, 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.

spgprints®



Single-Pass Digital Printing

SPGPrints is the inventor of the digital inkjet process 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 a new Single-Pass digital printer: PIKE, 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.