

spgprints®



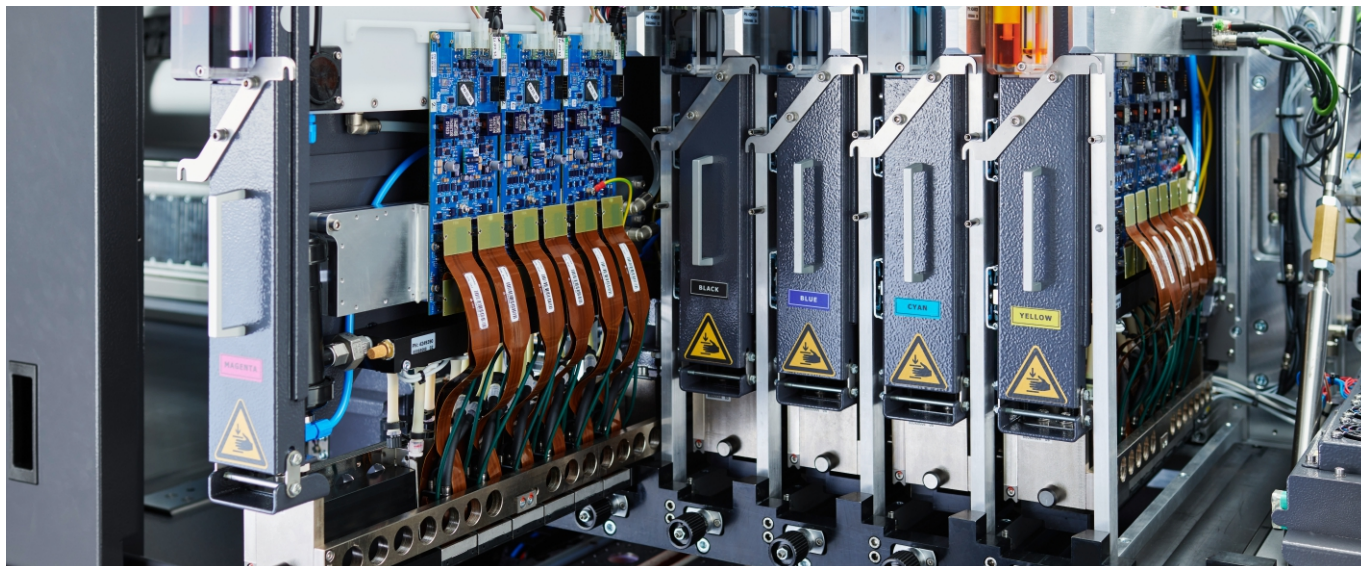
MAGNOLIA



MAGNOLIA

The next step up in digital textile printing

Printing tomorrow.



Everything is possible

High-end digital printing

The Magnolia 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. Magnolia uses several printing modes and 36 or 48 FUJIFILM Dimatix Samba printheads with a resolution of 1200 dpi. Apart from ease, accuracy and productivity, Magnolia offers flexibility and may be used with Reactive 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 millions metres, Magnolia is both a workhorse and a sprinter.

Multitude of applications

Open creative possibilities with the wide range of natural fabrics, both knitted as well as woven. Blotches and gradations can be printed with intense colors and smoothness thanks to the variable dropsizes technology combined with the unique, unrivalled native 1200 dpi resolution. This also allows the printing of very fine lines and geometric designs that no other digital printer on the market can match.

Engineered for performance

Full control in one integrated system

Magnolia is a complete system, designed and engineered to make a complete solution. All elements are made to work together: printheads, inks, substrate conveyor, and dryer. With Magnolia from SPGPrints, configuring the right combination for your requirements is possible without compromising results.

Archer+Pro unrivalled image quality and long printhead life

Magnolia comes standard including the patented SPGPrints Archer+Pro technology. This automated nozzle correction software ensures perfect positioning of each drop on the fabric. The automatic individual nozzle correction ensures always a perfect image quality without striping. The automated and therefore operator independent bi-directional alignment allows to print almost all design in bi-directional mode, enabling a higher yield of printed meters per hour without the so-called 'Soccerfield effect'. Finally, it extends the lifetime of all printheads thanks to nozzle compensation for misaligned or missing nozzles.

End-to-end support of your business

With SPGPrints you can access decades of experience in textile printing, right from the source. Our application support specialists are dedicated to help you explore new possibilities and will share everything there is to know to keep your Magnolia in perfect condition. And when outstanding results matter, rely on SPGPrints' ink technology. Our performance inks are specially formulated to deliver optimum performance. In-house development and production allows us to offer inks with unrivalled quality and runnability that add value to your business. Our inks guarantee unattended printing without nozzle blockages or print head failures while adhering to the highest standards and legislation on sustainability.

End-to-end control for quality output

The right balance of technology incorporated in Magnolia, internationally recognized SPGPrints inks and our full support ensures end-to-end control for consistent high-quality output. Whereas Magnolia is built to control high speed and high quality in two different printing widths, Magnolia is a great option for entering the mid-high segment in digital printing. The combination of FUJIFILM Dimatix Samba print heads and SPGPrints specially formulated performance inks ensure excellent runnability and longer print head lifetime. Most importantly, you can count on strong and vivid colours at the lowest possible ink consumption.

A closer look to inspiring details

Features	Description					
Printing width	1850 mm or 3200 mm					
Performance table for 1.85m wide printing on a 1.85m system	Mode	Productivity 36 PH (m ² /h)	Productivity 48 PH (m ² /h)	Passes	Resolution (dpi)	Ink lay down (g/m ²)
	Regular uni-directional	230	308	Single	1200 x 1200	16
	Regular bi-directional	335	425	Single	1200 x 1200	16
	Dual uni-directional	115	151	Double	1200 x 1200	32
	Dual bi-directional	170	223	Double	1200 x 1200	32
	Fast uni-directional	325	432	Single	600 x 1200	8
	Fast bi-directional	550	677	Single	600 x 1200	8
	Dual Fast uni-directional	160	216	Double	600 x 1200	16
	Dual Fast bi-directional	300	396	Double	600 x 1200	16
	* Actual performance may depend on the specific type of system and application settings					
Infeed	Basic infeed: woven fabrics only, for rolls up to Ø1600 mm from A-Frame Universal infeed (optional): woven and knitted fabrics, for rolls up to Ø1600 mm from A-Frame as well as plaited fabrics					
Dryer	Horizontal dryer with one/three passages, up to 130°C Heated by gas or oil					
Printing belt	With thermoplastic glue and integrated washing unit					
Print head	SPGPrints Archer+ Pro technology with 36 or 48 Fujifilm Dimatix print heads, 1200 dpi native resolution, 2-10 pL variable drop size. A Magnolia with 36 printheads is in a later stage upgradeable at the customer to 48 print heads.					
Print head gap	3 - 5 mm from substrate					
Colours	6					
Inks	Reactive					
Environment condition	Room temperature 20 - 25°C Humidity 45% - 65% non condensing					

DELIVERING CONSTANT QUALITY LEVELS AT A FASTER RATE

With the development of the new Archer+ technology, we have created an adequate solution to one of the most pressing issues for digital printing companies: the difficulty of delivering constant quality levels.

Besides delivering crisp, sharp and high-quality prints with unique details and high resolution, the new Archer+ technology is the first solution that enables automatic and operator-independent adjustment of each individual nozzle. Using the Archer+ technology, therefore, results in definitions and more uniformity.



Sustainable by nature

The smallest possible footprint

As a manufacturer we are engaged in a continuous process to reduce our impact as much as possible. This means saving energy, water and chemicals is a priority. We purify our water and air before it leaves our factories and we process our waste responsibly, compliant to local regulations and standards. Our scope in sustainability extends to the production sites of our customers as well. We help them to reduce the environmental footprint of textile printing with products and expert advice, to save energy, reduce emissions and prevent waste of precious resources.

Digital production reduces waste

The core benefit of digital printing is flexible on demand production. No need to push large quantities with longer lead times and risks of overstock or shortages. Customers can order smaller batches and simply re-order successful collections. Digital dramatically reduces the waste of resources required to produce and ship stocks that never reaches any consumers. Next to that, SPG Prints has instilled a long-term sustainability strategy on its entire operation, impacting everything we do today and tomorrow. Finally, Magnolia brings about a colourful world with quality inks that are ZDHC and Oeko-Tex compliant.

About SPGPrints

Throughout our unique history, SPGPrints developed into an internationally acknowledged authority in textile printing, dedicated to bringing colour to the world. In recent years, our unique rotary screen printing concept allowed us to move beyond textile printing and offer solutions for labels, banknotes, COVID-19 testing strips, and more. And while still a distinct leader in rotary printing, we have also become a pioneer and a key player in the market for digital printing. In 1991 we were the first in the industry to launch a digital textile printer. Not much later we started producing ink for all leading digital technologies. Over the years, we have been awarded over 300 patents and we have built an international network in more than 100 countries. These days our focus on innovation is as strong as ever with taking care of our planet as a constant priority. We take pride in putting our customers first, letting their ambitions inspire us, and deploying our expertise, resources and network to help them to achieve their goals. Our solutions are designed to empower customers worldwide in all stages of the printing process; from pre-press to printing, from textile to industrial - and beyond. That is the global impact of a global player.

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