

Zeikon 5000 plus

QUALITY AND SPEED IN DIGITAL PRINTING





THE GROWTH WAVE IS COMING

Digital printing has without doubt been one of the fastest-growing industry segments of the last few years. The technology has developed at a phenomenal pace and is now coming to maturity. Until recently we had only just started to scratch the surface of what is possible, discovering its many opportunities. Today, there seems to be no end to the applications it is and can be used for.

No limits

If it can be printed, there is a fair chance it can be printed digitally. Brochures, posters, banners, leaflets, mailings, manuals, packaging, the list is endless. Digital technology not only provides an alternative to traditional printing technologies, it opens up a whole host of new applications that were not feasible before. Digital technology allows each single print to be different, enabling and catalyzing true individualized communications. It allows last minute changes and enables small as well as large high-quality print runs to be produced cost-effectively. It offers distributed printing in an increasingly globalized world as print-ready files can be sent digitally to local printers worldwide. On-demand printing what you want, where and when you want, has become a reality. By only printing what is needed, unused stocks are avoided, enabling cost-effective printing while reducing its impact on the environment.

Successful cross-fertilization

Digital technology not only changed the way we print, but also the way in which we communicate. And it has changed it in more ways than one. Print, web, video, e-mail, and mobile... To deliver the right message at the right time to the right audience requires a careful selection of one of these channels and, more often than not, a combination of two or more of them. Cross-media and cross-channel communication have become the norm in marketing as well as in any other branch of communication. The internet has brought about connectivity and interactivity into our daily lives, and into media and advertising. Digital printing in turn has the potential to exploit the opportunities offered by a connected environment, and to actually add to the interactivity of modern-day communications, as illustrated by sophisticated cross-media direct marketing campaigns and the many web-to-print applications that have emerged recently.

Digital printing is here to stay

While the commercial development of the internet has opened up a whole range of new opportunities, it has also led to a proliferation of information and generated its share of unsolicited and unwelcome spam. In today's digitized world, carefully-crafted print may regain its status of importance and exclusivity. Carefully-crafted digital print has the power to make tangible the intangible fruits of creativity.





MAKE SURE YOU CATCH IT

Digital printing is all set to becoming a fully established part of modern-day communications. Here is how to catch the ride.

Quality

In a world where customers are spoiled for choice, quality is no longer an option. Being able at all times to provide unquestionable quality has become crucial for your business' survival. Being able to provide exceptional quality is the key to success.

Versatility

In a world where businesses are under constant pressure to keep a competitive edge, the ability to adapt to rapidly changing market needs and customer requirements has to become second nature. To provide a good service, you will need a good press. To stay in business, you will need a better press.

Compatibility

Brochures, posters, packaging or mailings, they are not finished until they are finished. And the finishing touch is one you certainly would not want to compromise on. If you want to be successful, seamless compatibility of your press with a large range of finishing equipment is a must.

Sustainability

Sustainability is high on the business agenda. Digital printing, like any other technology, should comply with health, safety, and environmental standards. Recyclability of printed matter, for one, is becoming increasingly important. Environmentally conscious printing is no marketing ploy. It is a responsibility, if not an obligation.

Return on investment

In the end, the bottom line is... your bottom line.

XEIKON IS ON TOP

Convinced that digital is the way to go, but wanting to keep all your options open? Then the Xeikon 5000plus is the one for you. Evolved from the revolutionary Xeikon 5000, it has been perfected throughout, once again raising the bar for image quality and performance. With true 600 dpi and 4 bit variable dot density, it provides nothing short of reference quality on a wide range of print media and formats. And with printing speeds of up to 130 ppm and duty cycles of up to 4.2 million pages per month, it will not disappoint on speed and productivity. Add to that an unmatched ratio of quality to price, and you know you need not look any further for flexible, high-quality commercial printing.





BENCHMARK QUALITY

So, your customers are spoilt for choice. To win them over and have them coming back, you should not settle for anything less than the reference. And this is where the Xeikon 5000plus comes in: loaded with features to provide offset-challenging image quality.

Proven imaging process

True to its roots, the Xeikon 5000plus uses dry toner electrophotography. Engineered to perfection, the electrophotographic imaging process remains the industry standard for quality and reliability.

600 dpi and variable dot density

Rich color depth and subtle contrasts will more than meet your needs and that of your discerning customers. 600 dpi and 4 bit variable dot density is what makes your prints radiate this vibrant quality. And if ever you want still more, the option is there when you need it.

Optimized screening libraries

To exploit the 600 dpi to the fullest, the Xeikon 5000plus uses a sophisticated screening library. For each print job, the screen ruling can be adapted for every single page element, be it text, line work or images, ensuring outstanding image quality.

Perfect color consistency

Two inline densitometers and high-performance process algorithms provide uniform and accurate colors and perfect color registration. Color consistency is guaranteed over time, from job to job and from press to press. The Xeikon 5000plus, with the specially developed Xeikon FA toner, is Pantone® certified. What is more, this FA toner is FDA-approved for indirect contact with food. Certain colors have also been approved for direct contact with specific dry foods.

Image and data integrity

Xeikon's renowned One-Pass-Duplex™ technology enables perfect front-to-back registration and simultaneous double-sided printing. This ensures data integrity, which is crucial for documents containing critical financial information, as no one would want Mr. Jones on the front becoming Mrs. Smith on the back of the page.

STUNNING VERSATILITY

Digital printing has removed many technical restrictions, encouraging designers and marketers to push the boundaries of their creativity. With the Xeikon 5000plus you have a press that is a perfect match.

Various formats

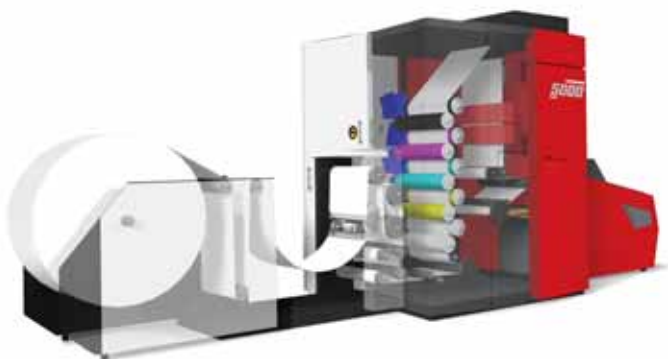
Being web-fed and with an imaging width of up to 483 mm, the Xeikon 5000plus offers you a choice of a wide array of standard and non-standard formats and virtually unlimited image lengths.

Various substrates

From newsprint paper to paperboard, the Xeikon 5000plus handles an impressive range of media weights without a crease. Synthetic media and label stock complement a broad range of coated and uncoated paper and paperboard, supporting your unbridled creativity and value-added applications.

Flexible productivity

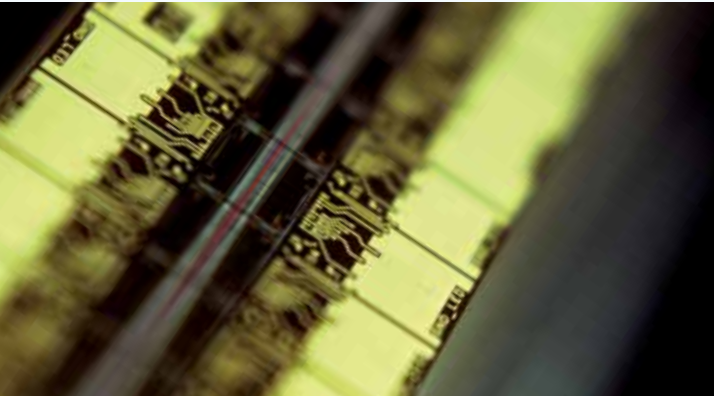
Being web-fed it is also fast, running at up to 130 ppm. You can switch on its productivity whenever you need: the Xeikon 5000plus is ready when you are to process large volumes without batting an eye. Well-engineered, robust, and reliable with an uptime of 80%, it will never let you down.



WINNING ATTRIBUTES

With its industry-best ratio of quality to price the Xeikon 5000plus surely gets the thumbs up:

- The capability of handling scalable print media widths up to 508 mm combined with a 483 mm imaging width, allows 2-up A4 and 3-up A5 printing on an unbeaten range of substrates, opening up a whole new world of applications.
- Printing speeds of up to 130 A4 pages per minute support the productivity you need.
- The high-precision LED-based imaging head, featuring true 600 dpi at 4 bits per spot, generates impeccable image quality output.
- Two powerful screening libraries help to exploit the 600 dpi imaging to the fullest.
- Two inline densitometers and high-performance process algorithms vouch for consistent and accurate colors.
- Xeikon FA toner delivers cost-effective impeccable quality, and FDA approved it can be used for applications in indirect contact with food. Certain colors have also been approved for direct contact with specific dry foods.
- Two easily replaceable 5th color stations, one on either printing side, allow the use of standard off-the-shelf spot colors.



XEIKON TRADEMARK FEATURES

When you choose a Xeikon, you are reaping the benefits of two decades of innovation and development. The Xeikon 5000plus is no exception. It comes with all the features that have become Xeikon's trademark, such as:

- LED-array based dry toner electrophotography providing for a robust and stable, industry-best imaging process.
- Unique and patented One-Pass-Duplex™ technology allowing simultaneous double-sided printing for perfect front-to-back registration and data integrity.
- Web-fed operation for fast printing without limitations in sheet or image length.
- Unbeaten print media flexibility in terms of width, format, weight, and type, enabling a wide range of value-generating applications. No coating or pre-treatment needed.
- Choice between roll-to-roll or roll-to-cut sheet configurations depending on your application and finishing requirements.

POWERFUL X-800 DIGITAL FRONT-END

A pioneer in digital printing, Xeikon was one of the first to develop fully integrated digital workflows. The latest generation of our X-800 digital front-end is the result of continuous improvement and innovation. Through the X-800, the Xeikon 5000plus allows you to print PostScript, PDF, PPML, and PPML/VDX files and tackle the most demanding variable data print jobs at high speeds.

Intuitive

The X-800 has been designed with the user in mind. Its intuitive user interface helps your operators to get the most out of your Xeikon 5000plus.

Fast and flexible

Xeikon's proprietary unequaled streaming technology guarantees top-notch performance, while the integrated engine controller ensures continuous output quality. Intelligent RIP-while-print and post-RIP color adjustment minimize downtime while offering great flexibility.

Open and transparent

Thanks to Xeikon's focus on industry standards, the X-800 enables the implementation of fully automated workflows in smaller web-to-print as well as in high-end variable data production environments. Being a truly open system, it integrates seamlessly into your existing workflow, while its modular set-up and scalability, supported by a dedicated workflow partner program, make sure it can grow with your future requirements.

The best of both worlds

The optional IPDS controller combined with the X-800 delivers the best of both worlds: native IPDS data stream support for transactional documents and native PostScript or PDF for any other print work.



Zeikon 5000 plus

RETURN ON INVESTMENT ASSURED

If you want to learn how to drive, you better learn it right first time. The same goes for digital printing. If you do not want to run the risk of being left behind, the choice is obvious: the Zeikon 5000plus gives you a head start.

Versatile applications

This versatile piece of engineering can handle anything that gets thrown at it. It is ready when you need it to meet, exceed, and even anticipate your customers' needs, allowing you to print the widest variety of applications on a daily basis.

Commercial quality

From the first to the last print, your work will boast the same commercial quality your customers have come to expect. As your portfolio grows and you discover new niche applications with specific quality requirements, you may even want to shift into higher gear.

The Zeikon 5000plus gets you up to speed from day one. And with its unbeaten ratio of quality to price you are sure to be heading for a win.

TOTAL SOLUTIONS, TOTAL SERVICE

The Zeikon 5000plus gives you access to a whole range of new business opportunities. Be it stand-alone or integrated in a fully-automated workflow, we make sure the Zeikon 5000plus fits your business needs to a T.

Compatibility guaranteed

By design, the Zeikon 5000plus can be part of virtually any workflow. Its unique configuration makes it compatible with any third party application. And with Zeikon, you will find the ideal application and integration partner. We sit down with you and analyze your business opportunities in order to develop an implementation plan that meets your specifications. This plan can include integration with finishing equipment and existing hardware and software as well as specific software developments. Tapping into our wide network of industry partners, we can ensure you make the most of your Zeikon 5000plus.

Service makes the difference

The success of the Zeikon 5000plus is measured by the success of its users. You can always rely on our strong worldwide service team, at hand when needed. In addition, the Zeikon 5000plus is equipped with the Axeda Device Relationship Management (DRM) solution. This tool is providing an additional level of support for you since it allows us to remotely monitor your press and intervene in the unlikely event of a problem, helping you to optimize your system's uptime. Remote connection with your Zeikon 5000plus is established through a secure Internet connection using firewall-friendly technology. The Zeikon 5000plus has been designed to deliver prints of consistent superior quality on a reliable basis. But it is only when you are truly satisfied with our total service that we know we are performing as expected.



SPECIFICATIONS

Print technology	<p>process: LED-array-based, dry toner electrophotography</p> <p>color configuration: 4/4 or 5/5 One-Pass-Duplex™</p> <p>in-line density control: standard</p> <p>in-line register control: standard</p> <p>toner: Xeikon FA toner, Pantone® certified</p> <p>pre-printed stock functionality: standard</p>
Print media	<p>web-fed: paper (coated and uncoated), paperboard, synthetic media, label stock</p> <p>media width: 320 - 508 mm (12.6" - 20.0")</p> <p>media weight: 40 - 350 gsm (27 lb text to 122 lb cover)</p> <p>media formats: covering a wide range of printable formats including A4, A3, A3+, A2, B3, B2, and banners of unlimited length</p> <p>media caliper: < 550 µm</p>
Press throughput	<p>web speed: up to 9.6 m/min (16.0 cm/s; 31.5 ft/min)</p> <p>printing speed*: 130 ppm (7,800 pages/hour) up to 250 gsm (paperboard up to 200 gsm) 100 ppm (6,000 pages/hour) up to 300 gsm (paperboard up to 250 gsm) 70 ppm (4,200 pages/hour) up to 350 gsm</p>
Duty cycle*	up to 4,200,000 pages/month
Imaging	<p>addressability: 600 x 600 dpi with variable dot density 1200 x 3600 dpi with variable dot density (optional)</p> <p>screening: Heracles and Pericles screening libraries 483 mm (19.0")</p> <p>imaging width: in combination with 1200 dpi upgrade: 500 mm (19.7")</p>
Digital front-end	Xeikon X-800 included, IPDS controller (optional)
Console	proofing and control desk with proofing light
Output unit	Xeikon Stacker with removable cart (optional) Jumbo Rewinder (optional)
Power requirements	universal 3-phase
Compliance	CE, GS, CB, FCC

* A4 full color pages, when printing double-sided

A DRIVE FOR ECO-FRIENDLINESS

Follow our lead and 'print only what you need, reprint when needed', reducing waste through minimal production, thus downsizing storage space and decreasing costs. When developing new products we are guided both by environmental objectives and key design strategies:

- **Eco-objectives:** we aim to reduce recycling costs of all Xeikon products and the printed material produced and to minimize the environmental impact of our products throughout their entire life span, while meeting existing environmental directives and anticipating environment-related product standards and customer requirements.
- **Design strategies:** we aim to meet our eco-objectives by replacing or reducing the raw materials used, improving process efficiency, optimizing energy consumption and product life

cycles, and improving product disposal and recyclability.

- **Xeikon presses are environmentally friendly:** they produce no hazardous emissions of VOCs, and because they do not use any process water, they do not cause water pollution either. The materials printed on Xeikon presses are also environmentally friendly. Xeikon printed matter is guaranteed to be recyclable as the toner can be easily removed and contains no harmful chemicals.

Choose a Xeikon and make your contribution to eco-printing.

ABOUT XEIKON

A pioneer in digital printing, Xeikon designs, develops and delivers high-end digital color printing systems for the global commercial, document printing and industrial market segments. These systems are composed of advanced web-fed printing engines using LED-array-based, dry toner electrophotography, open workflow software, exclusive toner and

other consumables. Production and R&D are based in Belgium, its solutions being distributed and supported through a worldwide sales and service network. Xeikon is a division of Punch Graphix. For more information, visit www.xeikon.com.

Punch Graphix International nv - T. +32 (0)3 443 13 11 - F. +32 (0)3 443 13 09
www.punchgraphix.com - info@punchgraphix.com - Duwijkstraat 17 - 2500 Lier - Belgium