

# Zeikon 6000

QUALITY AND SPEED IN DIGITAL PRINTING





## INTERACTIVE, NETWORKED, AND CUSTOMIZED

The internet has fundamentally changed the ways in which we communicate. Interactivity is increasingly becoming part of our daily lives and has found its way into marketing and advertising. It is in this environment of networked and interactive communications that digital printing could really come into its own.

### **Print at the click of a mouse**

Long gone are the days that web-to-print was about template-looking business cards and letter heads for home businesses. Increasing globalization and competition have given rise to the motto 'brand globally, communicate locally' with the internet in general and web-to-print in particular acting as enablers. Fully-fledged marketing communications platforms allowing users to online create, share, edit and order customized graphic arts quality marketing and other collateral are a reality and can make a profitable venture with win-wins for all involved. Web-to-print fulfillment has become an integral part of business, offering the level of interactivity users have grown used to.

### **Nostalgic suspense**

With the change from analogue to digital and the mass availability of megapixel cameras, we gained pixels but lost suspense. Web-to-print photo books are one way to bring back the old-time excitement we felt, waiting for

those holiday snapshots to be developed. And every camera coming with red eye flash compensation or easy-to-use photo-editing software, red eyes are no longer the spoilsports they used to be. The growing popularity of photo-sharing communities worldwide shows that photography is one of the preferred media for self-expression nowadays. Web-to-print photo books offer a powerful add-on, making for great personal, high-quality gifts in today's digitized world.

### **Attention-grabbing direct marketing**

Today's world is multimedia and marketing follows suit. The most effective campaigns use an intelligent combination of e-mail, web and print. As anti-spam software and legislation are limiting e-mail marketing to opt-in recipients only, printed direct mail will continue to play an important role, especially in attracting high-value clients and prospects as printed communication has come to be associated with 'exclusivity and importance'. Flooded with information, however, customers demand originality and relevance. A name on an otherwise standard card is just no longer sufficient. Today's direct marketing campaigns therefore demand technology that can marry customized, relevant content and striking design for each individual communication piece.





## IT TAKES A SPECIAL BREED...

What the market wants, digital printing can deliver. But to deliver it effectively your press needs to have a lot to offer.

### **Quality**

In a world where customers are spoiled for choice, quality is no longer an option. Being able at all times to provide impeccable, seducing quality not only gives you one up on the competition, it has become essential for your business' survival.

### **Versatility**

In a world where customers need to keep a competitive edge, standing out is key. Being able to offer the widest variety of applications and formats, each one as eye-catching as the other, or offering specialist services through dedicated excellence, are ways in which you can create your niche.

### **Connectivity**

In the end it is the finished product your customers are after, be it books, brochures or mailings. And with ever tighter deadlines you cannot afford to have a weak link. Seamless integration of your press with finishing equipment and the rest of your workflow is therefore a must.

### **Sustainability**

The industry is placing increasing importance on sustainability. Like any other technology, digital printing should comply with health, safety, and environmental standards. Recyclability of printed matter, for one, is becoming ever more important. Environmentally conscious printing is not a marketing gimmick. It is a responsibility, and making its way up to the regulatory agenda, soon it will be an obligation.

### **Return on investment**

At the end of the day, your bottom line will decide whether you stay in business.

## XEIKON HAS IT COVERED

When quality is key and seamless automated workflow integration a plus, the Xeikon 6000 is second to none. With true 1200 dpi at 4 bits per spot, it provides you with benchmark quality on a wide range of print media and formats. And with printing speeds of up to 160 ppm and duty cycles of up to 5 million pages per month, the Xeikon 6000 is the ultimate dedicated total solution for a wide range of applications, from graphic arts quality direct marketing pieces to the most sophisticated web-to-print applications. Discover how high-quality digital color printing can be profitable business!





## TRENDSETTING QUALITY

When only the best is good enough your choice is simple. The Xeikon 6000 has the best there is to offer when it comes to image quality. Packed with features to provide nothing less than sheer graphic arts quality, it will make you wonder how you managed all this time without one.

### Proven imaging process

True to its roots, the Xeikon 6000 uses dry toner electrophotography. Engineered to perfection, the electrophotographic imaging process remains the industry standard for quality and reliability.

### True 1200 dpi

The Xeikon 6000's revolutionary imaging head has one optimally conditioned and perfectly calibrated LED for every 21 micron width of the print medium. Each LED can be addressed with 4 bits of information. This unique combination of true 1200 dpi and 4 bit variable dot density offers the exceptionally sharp and crisp details, depth, and subtle contrasts expected by today's demanding customer.

### Refined screening library

To exploit the 1200 dpi to the fullest, the Xeikon 6000 uses the Pericles 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 superior 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 6000, 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

The possibilities for digital printing are endless and only limited by the imagination of you, your clients and their creatives. Versatile by design, the Xeikon 6000 has all it takes to let you explore the limits of profitable digital printing.

### Flexible formats

Being web-fed and with an imaging width of up to 500 mm, the Xeikon 6000 offers you a choice of a wide array of standard and non standard formats and virtually unlimited image lengths.

### Flexible substrates

From newsprint paper to paperboard, the Xeikon 6000 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.

### Productivity on demand

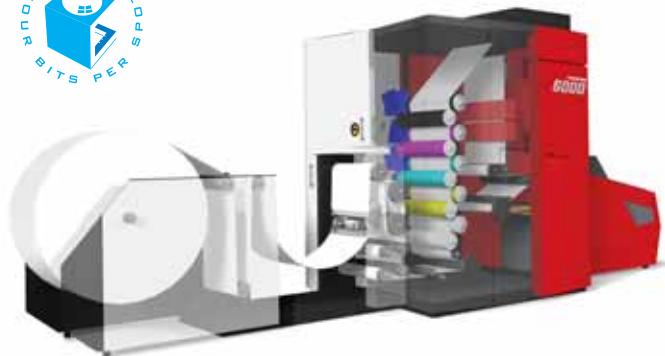
Being web-fed it is also blessed with innate speed, running at up to 160 ppm. The Xeikon 6000 is extremely robust and reliable, with an uptime of 80%. You can switch on its productivity when needed, making the best use of your finishing equipment capacity.

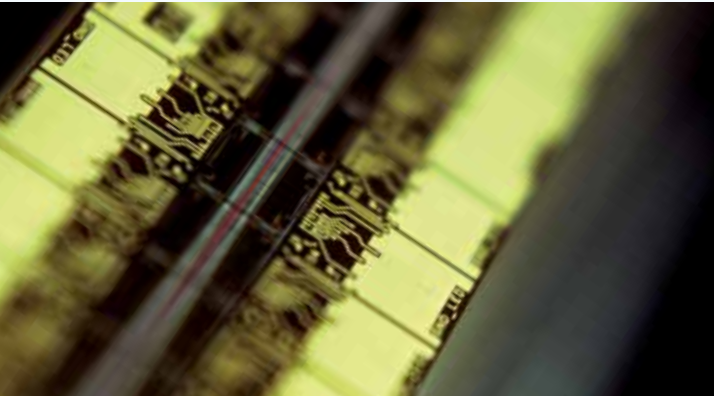


## WINNING ATTRIBUTES

Benchmark quality regardless the application is what sets the Xeikon 6000 apart:

- The capability of handling scalable print media widths up to 508 mm combined with a 500 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 160 A4 pages per minute support the productivity you need.
- The high-precision LED-based imaging head, featuring true 1200 dpi at 4 bits per spot, generates extraordinary image quality output.
- The refined screening library helps to exploit the 1200 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 6000 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 6000 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 6000.

### **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. The IPDS controller handles the IPDS input data stream directly without any conversions in-between and processes the bitmap data at rated engine speed!



# Zeikon 6000

## RETURN ON INVESTMENT ASSURED

Your goal is to grow your business profitably while satisfying today's most discerning customers. You need a press you can rely on to produce the same outstanding quality print after print after print. The Zeikon 6000 ticks all the boxes.

### **Versatile quality**

As versatile as it is dedicated to high-quality, this press is your ideal partner to deliver high-value end products and value-adding applications that will keep your customers coming back for more.

### **Effective integration**

As versatile as it is connectable, the Zeikon 6000 offers you fully integrated efficiency. Here is a press that can keep pace with your finishing equipment, allowing you to extract the true potential of a fully automated workflow.

With the Zeikon 6000 you have the key to your ultimate total solution. Whatever task you set it, you can trust it to deliver the goods time and time again.

## TOTAL SOLUTIONS, TOTAL SERVICE

The Zeikon 6000 opens a whole range of new business opportunities. Its full power really comes to bloom when it is firmly integrated into your business environment as part of a total solution.

### **Compatibility guaranteed**

By design, the Zeikon 6000 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 6000.

### **Service makes the difference**

The success of the Zeikon 6000 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 6000 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 6000 is established through a secure Internet connection using firewall-friendly technology. The Zeikon 6000 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

<b>Print technology</b>	<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>
<b>Print media</b>	<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: &lt; 550 µm</p>
<b>Press throughput</b>	<p>web speed: up to 12.0 m/min (20.0 cm/s; 39 ft/min)</p> <p>printing speed*: 160 ppm (9,600 pages/hour) up to 200 gsm 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>
<b>Duty cycle*</b>	up to 5,000,000 pages/month
<b>Imaging</b>	<p>addressability: 1200 x 3600 dpi with variable dot density Pericles screening library</p> <p>imaging width: 500 mm (19.7")</p>
<b>Digital front-end</b>	Xeikon X-800 included, IPDS controller (optional)
<b>Console</b>	proofing and control desk with proofing light
<b>Output unit</b>	Xeikon Stacker with removable cart (optional) Jumbo Rewinder (optional)
<b>Power requirements</b>	universal 3-phase
<b>Compliance</b>	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](http://www.xeikon.com).

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