

PRESS RELEASE

Atlantic Zeiser Brings Innovation to Industrial Digital Printing at Label Expo in Chicago

Atlantic Zeiser's total system solution DIGILINE™ Web, with integrated grayscale print engine DELTA™, will be demonstrated at LabelExpo 2010. The GAMMA™ 4-color process UV print engine offers the broadest integration range for industrial digital printing, including affordable production of small batch sizes and late-stage customization of packages and products. The GAMMA™ will be shown on an Atlantic Zeiser linear transport.

Atlantic Zeiser Group, a leading innovator and technology supplier for digital narrow-format label, packaging and direct product printing processes, demonstrates different integration modules of its broad portfolio of innovative print engines. On display will be the DELTA™ 105 grayscale printer family as well as the full-color GAMMA™ 70P. The GAMMA™ series delivers outstanding visual print quality up to 1060 dpi, and is ideal for label requirements for texts, barcode, pictures and logotypes. The company will showcase an application for top-quality printing on 3M foils at Label Expo in Chicago in Hall A Stand 719.

"Atlantic Zeiser will bring to Label Expo an innovative portfolio of print engines and integration modules that are ideal for industrial digital printing on labels, packages, booklet labels and transactional documents, as well as direct product printing for high-level and quality-oriented applications," said Ralf Hipp, Vice President of Digital Systems. "Our system solutions demonstrate the flexibility of our modular printing approach, and the versatile integration options with different modules to increase productivity and flexibility, with low operating and consumption costs.."

3M Alliance for high-quality substrates

Atlantic Zeiser's alliance with leading substrate manufacturer 3M will also be featured at Label Expo. This alliance adds a high-quality label stock provider that complements the Atlantic Zeiser product range for UV inkjet label printing. Atlantic Zeiser will showcase 3M's 92913 new digital label stock that is designed specifically for UV inkjet printing.

“The new 3M digital label stock for UV inkjet printing complements our comprehensive high-performance range of label materials, meeting the needs of almost any label application,” said Vera Witte, German Product Manager for 3M Performance Labels. “Our co-operation with Atlantic Zeiser has helped us develop products and solutions that meet customer needs for high-performance label applications. UV inkjet printing combined with LED curing offers significant advantages to converters, and 3M is pleased to be contributing to this advancement in the narrow-web label printing industry.”

Product Details

The DIGILINE system solutions from Atlantic Zeiser bring one-stop shopping to narrow and single product printing operations. Its modular structure enables extreme versatility by allowing integration of various print modules to complete an end-to-end highly customized production process. The DIGILINE series being demonstrated at LabelExpo includes:

DIGILINE™ Web with a **DELTA™** 105 printer is the perfect solution for a wide range of applications in the narrow printing market that supports users in increasing both margins and productivity.

Label customization with DIGILINE™ Web

The **DIGILINE™ Web** to be demonstrated at LabelExpo will show the application of the specifically applied label printing for demanding 3M label materials, and works with a digital DELTA 105i inkjet printer (black ink), as well as the SENSECURE UVC drying system. The web-to-web application on show features a resolution of 600 dpi at top speeds of up to 180 m/min, offering offset-class quality and speeds.

Information from a font size of 2 points can be produced. The DIGILINE™ Web Series system solutions can be used for different applications, such as personalizing, marking and coding labels, booklet labels and flexible packaging printing. Depending on the configuration of the integration module, it is possible to print more white with spot colors / grayscales or in four-color printing. Moreover, the use of camera-based verification with VERICAM, as well as a PDF/VT workflow module, is possible. DIGILINE™ Web is available in print widths between 30 and 280 mm. All of the Atlantic Zeiser print engines, as well as the suitable dryer units, are available as integration modules along with OMEGA, DELTA and GAMMA. A

MiniController, which controls the system solution seamlessly without a limit on the production and information flow to be included, is integrated.

Higher Resolution, Improved Print Quality

DELTA 105 modules are available in water-based and UV models using high quality Atlantic Zeiser inks with a new generation of remote-controlled active ink supply. All DELTA 105 models feature a print width of 105 mm (4.13 inches) and 5-level grayscale. Pneumatic print head positioning places print heads in either print or park/clean positions. Multiple print head installations add further flexibility to DELTA 105 configurations.

Four Models Available

The DELTA 105 family is available in water-based and UV models:

- DELTA **105** with **UV ink** features 600x600 dpi quality with print speeds up to 60 m/min (200 fpm) or print speeds of up to 120 m/min (400 fpm) at 300x600 dpi
- DELTA **105i** with **UV ink** delivers faster speeds, at up to 120 m/min (400 fpm) at 600x600 dpi and up to 240 m/min (800 fpm) at 300x600 dpi
- DELTA **105** with **Water-based** ink offers a high-quality water-based alternative that prints at 600x600 dpi at speeds of up to 75 m/min (250 fpm) or up to 150 m/min (500 fpm) at a resolution of 300x600 dpi
- DELTA **105i** with **Water-based** ink delivers even faster water-based printing with a speed of up to 150 m/min (500 fpm) at 600x600 dpi and up to 300 m/min (1,000 fpm) at 300x600 dpi

The DELTA 105 water-based family enables high quality printing on absorbent open substrates for commercial and security printing applications. UV ink models are ideal for printing on more difficult substrates such as lacquered, laminated and glossy materials often used in the packaging, food manufacturing and consumer goods markets. These highly functional UV systems meet the need for high-speed, high-quality grayscale printing for labeling, card personalization and other industrial/product printing applications.

The **GAMMA 70P** full-color UV print engines incorporated in the DIGILINE series use special UV inks manufactured by Atlantic Zeiser to optimize printing on a wide range of substrates. Incorporated in web printing systems, it brings offset class

printing quality and speed to the narrow printing market. The variable drop capability of the industrial-strength Xaar 1001 printhead consistently produces smooth tone graphics, fine detail, sharp text and barcodes to generate great results quickly, cost-effectively and reliably. A choice of UV curing systems is also available to suit specific applications. These include Atlantic Zeiser's new eco-friendly SMARTCURE LED UV curing system for temperature sensitive products. LED UV curing is especially suited to thin materials that can be damaged by heat used in traditional label-based UV curing.

The GAMMA™ 70 Series is based on established GAMMA™ printing technology, which has proven very successful in the ID card market. It is the perfect solution for a wide range of applications in the industrial digital printing market, and helps users increase productivity and margins. The GAMMA™ 70 Series combines Xaar 1001 printheads with Atlantic Zeiser controller and data preparation software. It is ideal for a wide range of markets, including packaging, labeling, commercial print, in-plant printing of consumer goods, security print and card printing.

This high-speed, single-pass UV solution incorporates Xaar 1001 grayscale print heads, and produces stunning quality at a high resolution of 360 dpi, which visually appears to be as high as 1060 dpi. With a print width of 70.5mm (2.8 in), the GAMMA™ 70 can be integrated in-line with sheetfed, web or single-product systems.

The **GAMMA 70P** printer integrated in these system solutions is a premium model well suited for both pinning and wet-on-wet for sharp texts, barcodes, pictures and fine details and logotypes.

Four models available

The GAMMA™ 70 and GAMMA™ 140 are available in two models for each print width:

- **GAMMA™ 70S/140S** is the standard model for wet-on-wet printing in the pattern application process
- **GAMMA™ 70P/140P** is the premium model that is well suited for both pinning and wet-on-wet for sharp texts, barcodes, pictures and fine details and logotypes

A full overview of Atlantic Zeiser solutions can be found at www.atlanticzeiser.com.

About Atlantic Zeiser

Atlantic Zeiser helps industrial customers to increase the cost efficiency, brand value and quality of their products within the production and logistics chain. The company achieves this by employing highly efficient digital solutions for the printing and coding of frequently changing content on such products. Atlantic Zeiser specializes in digital printing on challenging substrates, i.e. with low adhesion capacity for print colours, while delivering offset-like quality and production speed. In the three segments Digital Printing & Coding Solutions, Card Systems and Banknote & Security Printing Systems, the company develops, manufactures and distributes technologies as well as integrated solutions for industrial producers throughout the world. Atlantic Zeiser supports its customers through nine subsidiaries as well as distribution and support offices in some 50 countries.

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