

ALPHA 200

Digital Inkjet Printing with Continuous Array Jet Technology



CARD SYSTEMS ○
DOCUMENT & PRODUCT IDENTITY ○
IMPACT NUMBERING ○



Just printing is not enough anymore. Easy start up and servicing are in demand. Atlantic Zeiser has realized this with the new generation of continuous array printing system technology - the ALPHA 200 printers.

The ALPHA 200 printing system combines the established advantages and reliability of the proven ALPHA 166 with easier starting and maintenance qualities. The system itself fits optimally into web or sheet-fed applications. Moreover, it can be integrated either into already existing machinery or Atlantic Zeiser system solutions.

The ALPHA system is the ideal answer for all requirements in printing business forms, security and direct-mail applications.

Advantages

- High speed printing system to be used for marking the most diverse types of materials (e.g. plastics, paper, foil)
- No additional drying or varnishing necessary
- Texts, logos, graphics, bar codes in high resolution at a width of 2" per print head
- Multiple print head applications possible
- Short start-up and shut-down times - all computer controlled
- Automatic phasing done on a continuous basis between every print command
- Ink refill system allows on the fly topping off and eliminates wasted fluids at bottom of bottle
- Wide range of Atlantic Zeiser in-house developed solvent inks available (incl. IR-readable security inks)
- Simple data processing for user-friendly handling
- Highly reliable and secure system in combination with the Atlantic Zeiser Unique Vision camera system
- Atlantic Zeiser controller for integration of multiple print heads into manifold system applications

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Flexible, economical and easy to use

The ALPHA 200 print head prints with fast speed at a width of 2". Larger printing widths can be achieved with multiple print heads combined and integrated into the Atlantic Zeiser controller. The printing can be executed at a standard resolution of 128 across or 128/256 along the web.



Specially developed inks for this system guarantee a high print quality on various substrates and an excellent depth of contrast. This is especially notable with high-resolution bar code markings.

In multiple print head applications, it is possible to use different types of inks and different colors simultaneously. The ALPHA 200 ink supply management disposes of two independent ink storage mountings in the cabinet allowing to operate with alcohol or solvent based inks to be used on various substrates (e.g. plastic, paper, foil).



As a result of the long lasting experience in dealing with printing requirements in various sectors, Atlantic Zeiser has developed in-house a wide range of special inks:

- Fast drying inks
- UV-curing inks
- IR-readable security inks
- Food grade inks
- Colored inks

Today, the acquired application expertise enables Atlantic Zeiser to supply customized solutions according to the market requirements, including printing systems, standard



or special inks and the corresponding camera verification systems.

Atlantic Zeiser controller

To ensure continuous production, the controller monitors printing and positioning of the data and directs, synchronizes and controls single, double or multiple print heads. Optical monitoring and verification systems (e.g. the AZ UNIQUE VISION camera control system or the SIRIUS mobile scanning device) can also be connected to the controller according to the printed information to be read back. To ensure that this process is implemented smoothly, this central controller platform coordinates all the various technologies involved.

Top resolution for bar code numbering

The following bar codes can be coded as standard: Code 39, 2 of 5, code 128, Coda bar, EAN 8, EAN 13, UPC, Post net, 2/5 interleaved

Technical specifications	
Dimensions of control unit	500 x 596 x 1,066 (l x w x h)
Dimensions of print head	103 x 118 x 326 (l x w x h)
Weight (control cabinet, inks supply)	approx. 250 kg
Print head lead	6 meters
Power supply	220 - 240 V / 50 Hz or 110 - 120 V / 60 Hz - 2,000 W
Ambient temperature	10 - 40 °C
Relative humidity	10 - 90% at 30 °C - not condensing
Print width (single head)	2 inches (50.8 mm)
Resolution	128 dpi across; 128/256 dpi along the web
Production speed	up to 300 m/min - depending on configuration