

OMEGA™ Print Engines

Industrial Inkjet Integration Modules



- Offset-class Printing Speeds and Quality
- Substrate Flexible → Highly Versatile
- Easy to Integrate → Trouble-free → Cost-efficient



OMEGA™ **36**

OMEGA™ **36i**

OMEGA™ **36HD**

OMEGA™ **70P**

OMEGA™ **72**

OMEGA™ **72i**

OMEGA™ **72HD**

OMEGA™ **210**



OMEGA™ – Benchmark Print Quality and Versatility

Atlantic Zeiser offers the most extensive range of high-resolution UV inkjet printing modules and accessories in the industry. These modules meet the cost-efficiency and technical criteria for modern package, label and direct product printing applications, enabling producers to master challenges where others fail, and increase their cost efficiency, brand value and product quality. Following the concept of Industrial Digital Printing 2.0 (IDP 2.0), integration of print engines is the key to optimize profitability with marking, serialization, customization, decoration and personalization at different stages of the production process. Whether you like to integrate Atlantic Zeiser print engines directly into your own equipment or require end-to-end solutions – the OMEGA™ family of print engines make the task easy with almost no restriction of application areas in the industrial environment.

Typical Applications

- Package, label, direct product printing
- Frequently changing text, graphics, numbers, bar codes, 2D codes
- Marking, serialization, customization, decoration, personalization
- Ingredient information, Track & Trace codes, production data, custom designs, serial codes, patient data, expiration dates, different languages and fonts, addresses, billing information
- Printing on blank or pre-printed products

OMEGA™ at a Glance

- Single-pass spot color UV print engines
- Top resolutions up to 720 x 720 dpi
- Top speeds up to 120 m/min (400 fpm)
- Base print widths from 36 mm to 210 mm
- Expanded print width through easy cascading of several print engines
- Many possible printing directions (vertical, horizontal, angle)
- Standard communication interfaces
- Adobe PDF/VT ready – available Q2/2011

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Your Competitive Edge

- Production savings ► low operating costs, increased productivity, just-in-time production
- Investment savings ► easy to integrate/use of existing production equipment and conveyer bases
- Inventory savings ► less variants of pre-printed stock, late stage customization
- Added value ► new business opportunities using digital printing

Technical Specifications		OMEGA 36		OMEGA 36i		OMEGA 36HD		OMEGA 70P		OMEGA 72		OMEGA 72i		OMEGA 72HD		OMEGA 210	
Print Width		36 mm 1.4 inches		36 mm 1.4 inches		36 mm 1.4 inches		70 mm 2.75 inches		72 mm 2.8 inches		72 mm 2.8 inches		72 mm 2.8 inches		210 mm 8 inches	
Native Resolution		360 dpi		360 dpi		720 dpi		360 dpi		360 dpi		360 dpi		720 dpi		360 dpi	
Resolution Horizontal [dpi]	Max. Print Speed [m/min]	360 180	30 60	360 180	60 120	720 25		360 180	24 60	360 180	30 60	360 180	60 120	720 25		360 180	30 60
Droplet Volume		50 pl		50 pl		14 pl		6 – 42 pl (var.)		42 pl		42 pl		12 pl		42 pl	
Standard Colors		black, red		black, red		black, red		ultra white		black, red		black, red		black, red		black, red	
Custom Colors		yes		yes		yes		no		yes		yes		yes		yes	
Smallest Readable Font Size		4 pt		4 pt		2 pt		4 pt		4 pt		4 pt		2 pt		4 pt	
Substrates		a wide variety of papers and carton, aluminum, metal, polymer foils, plastics and glass															
Possible Printing Directions		horizontal vertical angle 0 – 30°		horizontal vertical angle 0 – 30°		horizontal vertical angle 0 – 30°		vertical		vertical angle 0 – 30°		vertical angle 0 – 30°		vertical angle 0 – 30°		vertical	
Ink Types		UV (UVA, UVC)		UV (UVA, UVC)		UV (UVA, UVC)		UV (UVA, UVC)		UV (UVA, UVC)		UV (UVA, UVC)		UV (UVA, UVC)		UV (UVA, UVC)	
Jetting Technology		Piezo DoD		Piezo DoD		Piezo DoD		Piezo DoD		Piezo DoD		Piezo DoD		Piezo DoD		Piezo DoD	
Dimensions (h x w x d) [mm]		200x80x40		200x80x40		200x80x40		195x174x64		195x174x64		195x174x64		195x174x64		245x280x100	
Dimensions (h x w x d) [inches]		8 x 3 x 1.5		8 x 3 x 1.5		8 x 3 x 1.5		8 x 7 x 2.5		8 x 7 x 2.5		8 x 7 x 2.5		8 x 7 x 2.5		10 x 11 x 4	
Communication Bus		USB, Ethernet															
Standard Delivery		print engine, adjustable integration bracket, ink supply system, purge station, job editor software, production software, installation kit															
Options		UV lamp dryer, UV LED dryer, Adobe PDF/VT extensions (available Q2/2011)															

Atlantic Zeiser's High-Resolution, Substrate Flexible Print Engine Families for Your Production Needs (selection)

- » OMEGA™ print engines (UV inks): offset-class print quality with spot color; extremely versatile, robust and cost efficient
- » DELTA™ print engines (UV or aqueous inks): offset-class print quality and productivity with spot color; ink saving
- » GAMMA™ print engines (UV inks): offset-class print quality with full color CMYK (& White)

Off-the-shelf End-to-end System Solutions from Atlantic Zeiser (selection)

- » DIGILINE™ Web – digital printing and coding web-to-web for label, booklet label and flexible package printing
- » DIGILINE™ Sheet – digital printing and coding sheet-fed for carton sheet, mail, transpromo and security printing
- » DIGILINE™ Single Product – digital printing and coding for different product form factors in package and direct product printing