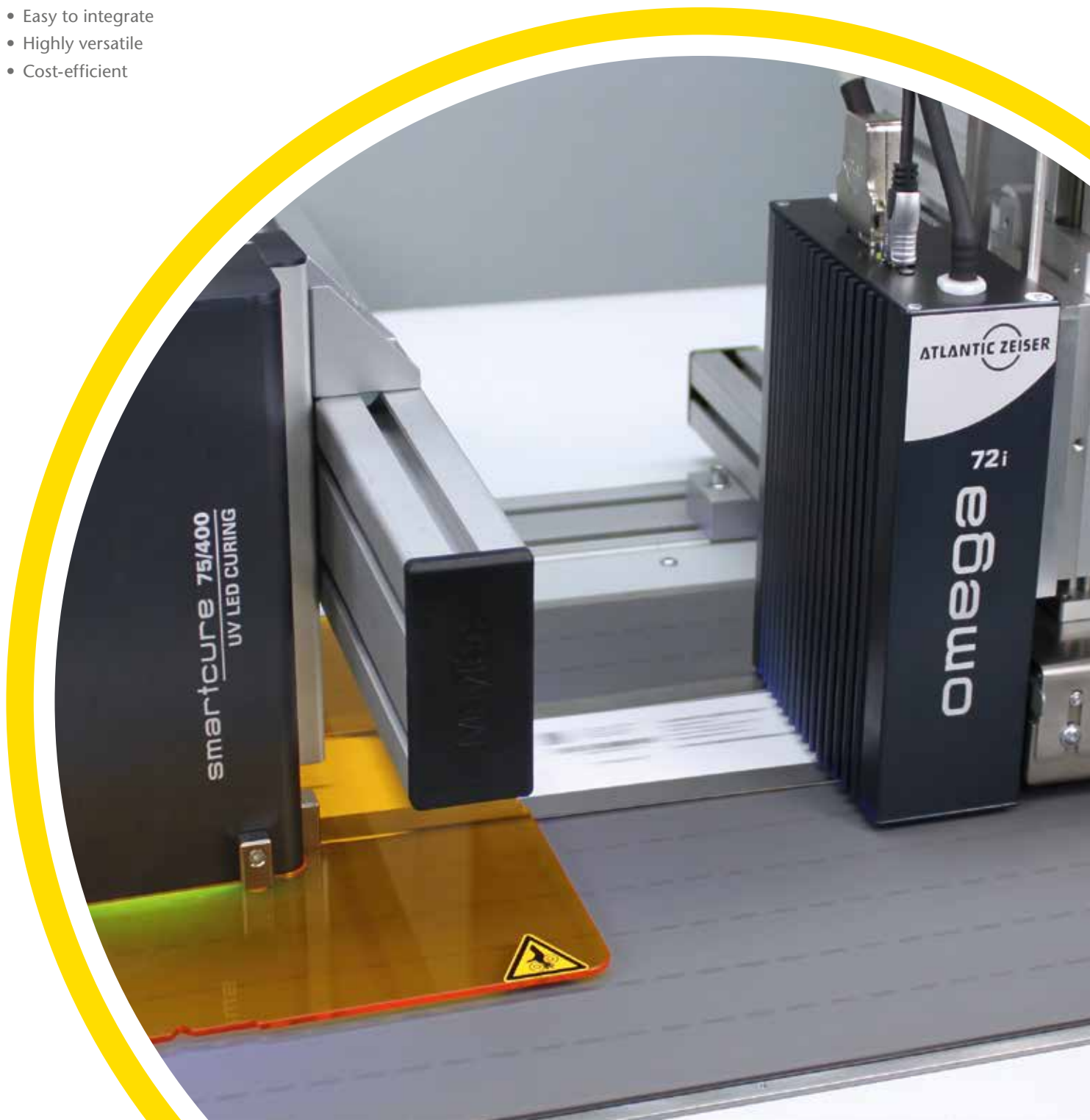


omega & smartcure

Drop-on-Demand Printing and Curing Systems

- High printing quality
- Substrate flexible
- Easy to integrate
- Highly versatile
- Cost-efficient



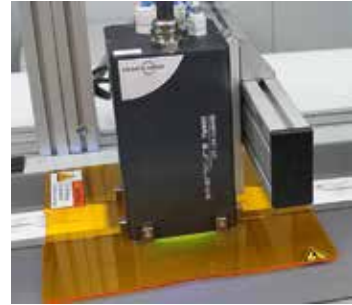
omega UV Inkjet Printing Systems

Benchmark Print Quality and Versatility

- Meet the technical criteria for modern, cost-effective package and label printing, coding and serialization
- Increase cost efficiency, brand value and product quality
- Achieve top print quality with spot color – up to 720 x 720 dpi – on a wide variety of substrates
- Allow top speeds up to 120 m/min (400 ft/min)
- Base print widths from 36 to 210 mm (1.4 to 8.3 inches)
- Ideal for late-stage customization
- Together with an Atlantic Zeiser coding unit, the printers offer multifunctional track & trace solutions
- Can be run in a stand-alone DIGILINE system (Atlantic Zeiser end-to-end printing solution) or integrated for example into blister machines, packaging lines, label systems
- OMEGA horizontal printer combined with an Atlantic Zeiser vertical printer offer simultaneous multiple side printing, e.g. of a package
- Standard communication interfaces
- Ready for Adobe PDF

Typical Applications

- Package and label printing
- Frequently changing text, graphics, numbers, bar codes, 2D codes, datamatrix codes
- Coding, serialization, customization, decoration, personalization, individualization
- Market-specific information, 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



Your Challenges

- Short product lifecycles
- Efficient just-in-time production of short runs
- Cost transparency
- Substrate flexibility
- High printing quality
- Inline/offline printing and coding
- Track & trace
- Anti-counterfeiting
- Country specific information
- Different bar code requirements
- Small batch sizes
- GMP requirements

Our Solution

OMEGA printer family for package, label printing and coding

Technical Specifications		OMEGA 36 OMEGA 36 HZ		OMEGA 36i OMEGA 36i HZ		OMEGA 36 HD		OMEGA 70 P		OMEGA 72		OMEGA 72i		OMEGA 72 HD		OMEGA 144		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		144 mm 5.6 inches		210 mm 8.3 inches	
Native Resolution		360 dpi		360 dpi		720 dpi		360 dpi		360 dpi		360 dpi		720 dpi		360 dpi		360 dpi	
Resolution Horizontal [dpi]	Max. Print Speed [m/min]	360 180	30 60	360 180	60 120	720	25	360	24	360 180	30 60	360 180	60 120	720	25	360	30	360 180	30 60
Droplet Volume		50 pl		50 pl		14 pl		6 – 42 pl (var.)		42 pl		42 pl		12 pl		42 pl		42 pl	
Standard Colors		black, red		black, red		black, red		ultra white		black, red		black, red		black, red		black, red		black, red	
Custom Colors		on request																	
Smallest Readable Font Size		4 pt		4 pt		2 pt		4 pt		4 pt		4 pt		2 pt		4 pt		4 pt	
Substrates		a wide variety of papers and carton, aluminum, metal, polymer foils, plastics and glass																	
Possible Printing Directions		vertical and angle 0 – 30°; horizontal (HZ version)				vertical and angle 0 – 30°		vertical		vertical and angle 0 – 30°						vertical			
Ink Types		UV (UVA, UVC)																	
Jetting Technology		Piezo DoD																	
Dimensions (h x w x d) [mm]		200 x 82 x 55		200 x 82 x 55		200 x 82 x 55		229 x 147 x 66		215 x 147 x 66		215 x 147 x 66		215 x 147 x 66		320 x 230 x 90		245 x 287 x 95	
Dimensions (h x w x d) [inches]		7.9 x 3.2 x 2.2		7.9 x 3.2 x 2.2		7.9 x 3.2 x 2.2		9 x 5.8 x 2.6		8.5 x 5.8 x 2.6		8.5 x 5.8 x 2.6		8.5 x 5.8 x 2.6		12.6 x 9 x 3.5		9.6 x 11.3 x 3.7	
Communication Bus		USB, Ethernet (to production PC)																	
Standard Delivery		printer, adjustable integration bracket, ink supply system, purge station, job editor software, production software, installation kit																	
Options		UV lamp dryer, UV LED dryer, Adobe PDF																	

Atlantic Zeiser’s systems allow the individualization and tracking of each unique product using printing/coding and camera-based product verification. These solutions ensure data integrity and security across the entire production process and throughout the entire supply chain to point of sale – ultimately reducing risk for the consumer. Atlantic Zeiser has decades of experience and core competencies relevant to the pharmaceutical and cosmetics industries and draws on its strong expertise to accomplish system integration projects essential to the implementation of powerful track & trace solutions.

The customers benefit from a proven turnkey solution for in-house printing of required pharma codes as well as safety and anti-fraud codes for cosmetics packaging, including special security inks and fast, reliable customization as required.

Atlantic Zeiser offers the most extensive range of end-to-end high-resolution UV inkjet printing solutions in the industry, including modules and accessories.

SMARTCURE, SMARTCURE AIR and FREEZECURE – the formulated curing technology for your requirements

The UV LED curing technologies, whether air-cooled or water-cooled, are standing for drastically reduced operating costs due to increase in operating life and decrease in energy consumption. There is no generation of hazardous ozone and practically there is no heat radiation onto the substrate. We call this eco-friendly curing technology.

All modules of SMARTCURE, SMARTCURE AIR and FREEZECURE ideally match with Atlantic Zeiser inks and printers.

Technical Specifications	SMARTCURE 75/200	SMARTCURE 75/400	SMARTCURE 150/160	SMARTCURE 225/200
Illuminated Area (w x l)	75 x 50 mm / 3 x 2 inches	75 x 50 mm / 3 x 2 inches	150 x 20 mm / 5.9 x 0.8 inches	225 x 50 mm / 8.9 x 2 inches
UV LED Power Output	4 W/cm ²	8 W/cm ²	8 W/cm ²	4 W/cm ²
Module Dimensions (h x w x d)	210 x 120 x 120 mm 8.3 x 4.7 x 4.7 inches		51 x 165 x 51 mm 2 x 6.5 x 2 inches	230 x 304 x 114 mm 9 x 12 x 4.5 inches
Curing	water-cooled			
Required Cooling Capacity	1.0 kW	1.7 kW	1.3 kW	3.0 kW
Required Refrigerant Flow	6 l/min	6 l/min	6 l/min	18 l/min
Ideally Suited for Use with	OMEGA 36 / 36 HZ / 36 HD OMEGA 72 / 72 HD < 30 m/min	OMEGA 36i / 36i HZ OMEGA 72i / 70P < 60 m/min	OMEGA 144 < 30 m/min	OMEGA 210 < 30 m/min
Available Inks	Atlantic Zeiser inks			
Standard Delivery	curing module; curing controller			
Options	cooling unit; UV shield			

Technical Specifications	SMARTCURE AIR 20/125	SMARTCURE AIR 20/250	SMARTCURE AIR 25/100	FREEZECURE
Illuminated Area (w x l)	20 x 25 mm / 0.8 x 1 inches	20 x 50 mm / 0.8 x 2 inches	25 x 20 mm / 1 x 0.8 inches	75 x 10 mm / 3 x 0.4 inches
UV LED Power Output	5 W/cm ²	5 W/cm ²	5 W/cm ²	1 W/cm ²
Module Dimensions (h x w x d)	230 x 77 x 110 mm 9 x 3 x 4.3 inches		230 x 110 x 77 mm 9 x 4.3 x 3 inches	191 x 150 x 120 mm 7.5 x 5.9 x 4.7 inches
Curing	air-cooled			
Ideally Suited for Use with	OMEGA 36 / 36 HZ < 30 m/min	OMEGA 36i / 36i HZ < 60 m/min	OMEGA 36 HD < 24 m/min	OMEGA 36 / 36 HZ / 72 / 70P < 30 m/min
Available Inks	Atlantic Zeiser inks			
Standard Delivery	curing module; curing controller			
Options	UV shield			

Atlantic Zeiser's high-resolution, substrate flexible printing systems for your production needs

- OMEGA printing systems (UV inks): high printing quality with spot color; extremely versatile, robust and cost-efficient
- DELTA printing systems (UV or water-based inks): high printing quality and productivity with spot color; ink saving
- GAMMA printing systems (UV inks): high printing quality with full/process color CMYK

Atlantic Zeiser leverages its combined competencies to meet your requirements

- Management software solutions
- Inkjet printing systems
- Individualization systems
- Ink

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