

# BRAILLE SYSTEM

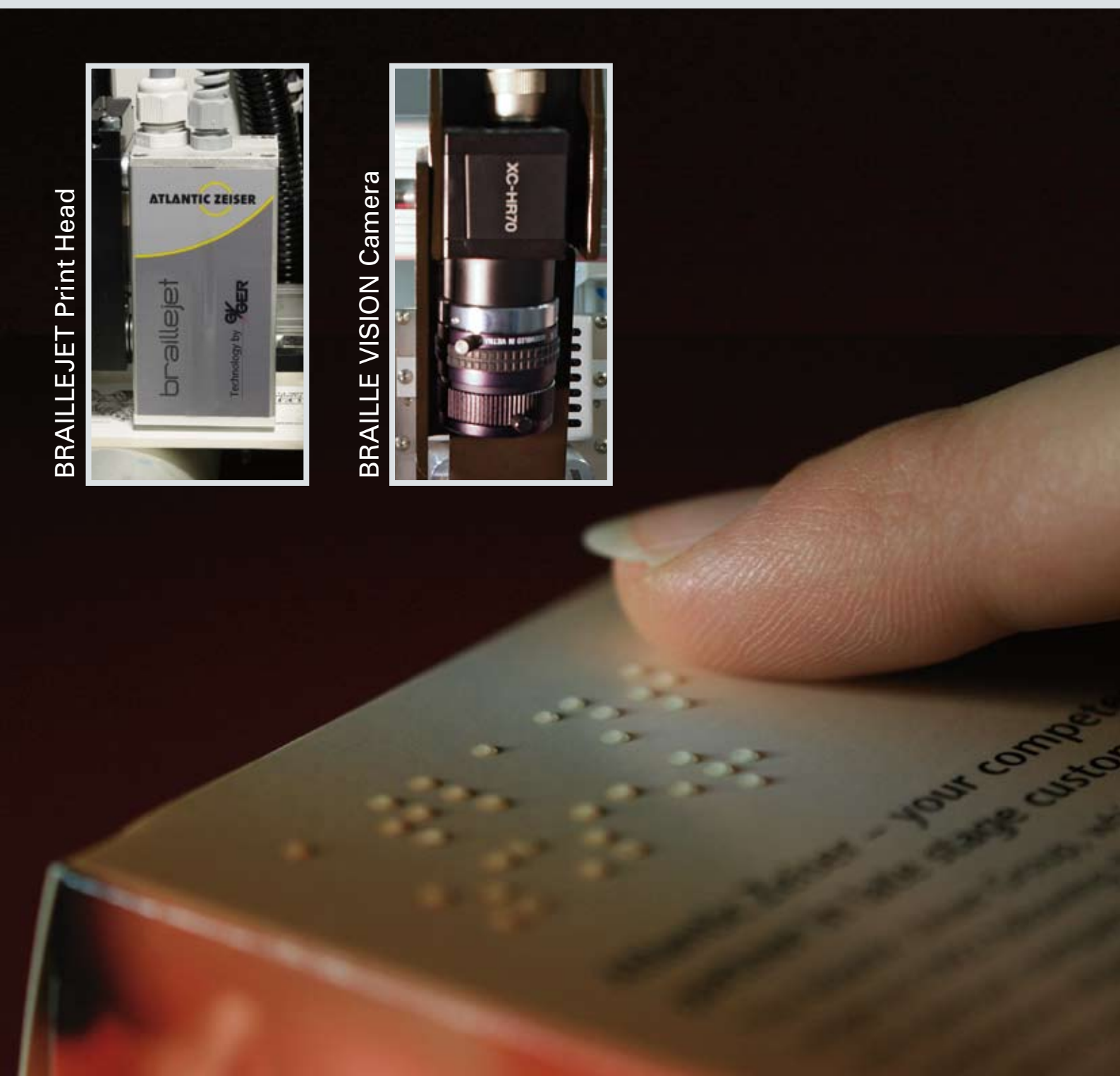
Innovative complete solution for digital Braille printing



BRAILLEJET Print Head



BRAILLE VISION Camera



# BRAILLEJET and BRAILLE VISION set new benchmarks

Embossing remains intact better than print. At least that is what printing companies have firmly believed until now when it comes to applying Braille onto packaging. But that has changed since Atlantic Zeiser, supplier of digital printing and encoding systems, recently launched its own solution for digitally printing and verifying Braille fonts – BRAILLEJET and BRAILLE VISION. The solution comprises a high-quality printing system for UV printing and a new, integrated camera control system. The benefits include superior adherence to a wide variety of substrates, transparency, contour fidelity and accuracy as well as excellent durability.

The technical challenges of printing and personalizing packaging with Braille, which have to date represented significant problems for the industry, are not the only factors behind the new development: By October 2010, all medicines sold through retail in the European Union must have Braille marking on the packaging to accommodate the needs of blind and visually challenged people.

## Advantages compared with silkscreen printing and embossing

- High degree of flexibility of use (substrate and production process)
- BRAILLEJET and BRAILLE VISION are available as an integration package or in combination with a transport system (both web and sheet fed transport systems)
- Complete system solution from a single source, comprising a printer module, UV dryer, inks and camera system
- Digital printing technology, which enables the production of small batches at anytime
- Individualized marking due to variable data printing
- High quality in terms of contour and edge definition
- Easy integration into existing systems due to its compact print head and camera design
- Easy use of interface-software
- Short make-ready times allow fast job change-overs
- Standard font types (Marburg Medium)

## Innovative complete system solution

BRAILLEJET is offered as a complete, flexible system solution that includes a print module and UV dryer. The main advantages of the solution are the excellent price-performance ratio and its compact design which facilitates installation in most production environments.

## ✦ Revolutionary microvalve technology

The revolutionary microvalve technology developed by our Swiss technology partner Gyger enables Braille letters to be printed using high-viscosity UV-cured ink in order to achieve immediate fixation of the dots. The result is optimal legibility and exceptional dot clarity.

## 100% quality control

BRAILLE VISION which provides 100% quality control can be easily integrated to monitor the production processes.

## Flexible application area

BRAILLEJET can be installed in a wide variety of technical environments, including label manufacturers and packaging printers, suppliers of finishing systems. However, the system is also suitable for printing on industrial products such as bottles, signs and switches; as well as used to improve the tactile properties of a substrate's surface, i.e. surface finish and slip resistance.



Technology by **GYGER**



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## With the BRAILLE SYSTEM you are equipped for the future

**1 BRAILLEJET Print Head**  
BRAILLEJET is based on a revolutionary new microvalve technology. Braille characters are printed using a UV-cured, high-viscosity ink. This immediately fixes the printed dots, and makes reading the Braille as easy as possible.

**2 SENSECURE Dryer**  
The air-cooled SENSECURE UV drying system with a 150 mm lamp length (longer options available) is designed specifically for the inkjet market. It has a compact design and is simple and cost effective to integrate. The unit is equipped with folding reflectors, ensuring efficient heat management.

**3 BRAILLE VISION Camera**  
BRAILLE VISION features specially calibrated optical camera filters and adjustable illumination, so you can closely monitor your production process and maintain tight quality control.

**4 Monitor**  
Clear display of the Braille and camera software.

**5 OMEGA Print Head**  
BRAILLEJET can be readily combined with the OMEGA inkjet printing solutions from Atlantic Zeiser, which is especially useful for the manufacture of booklet labels.

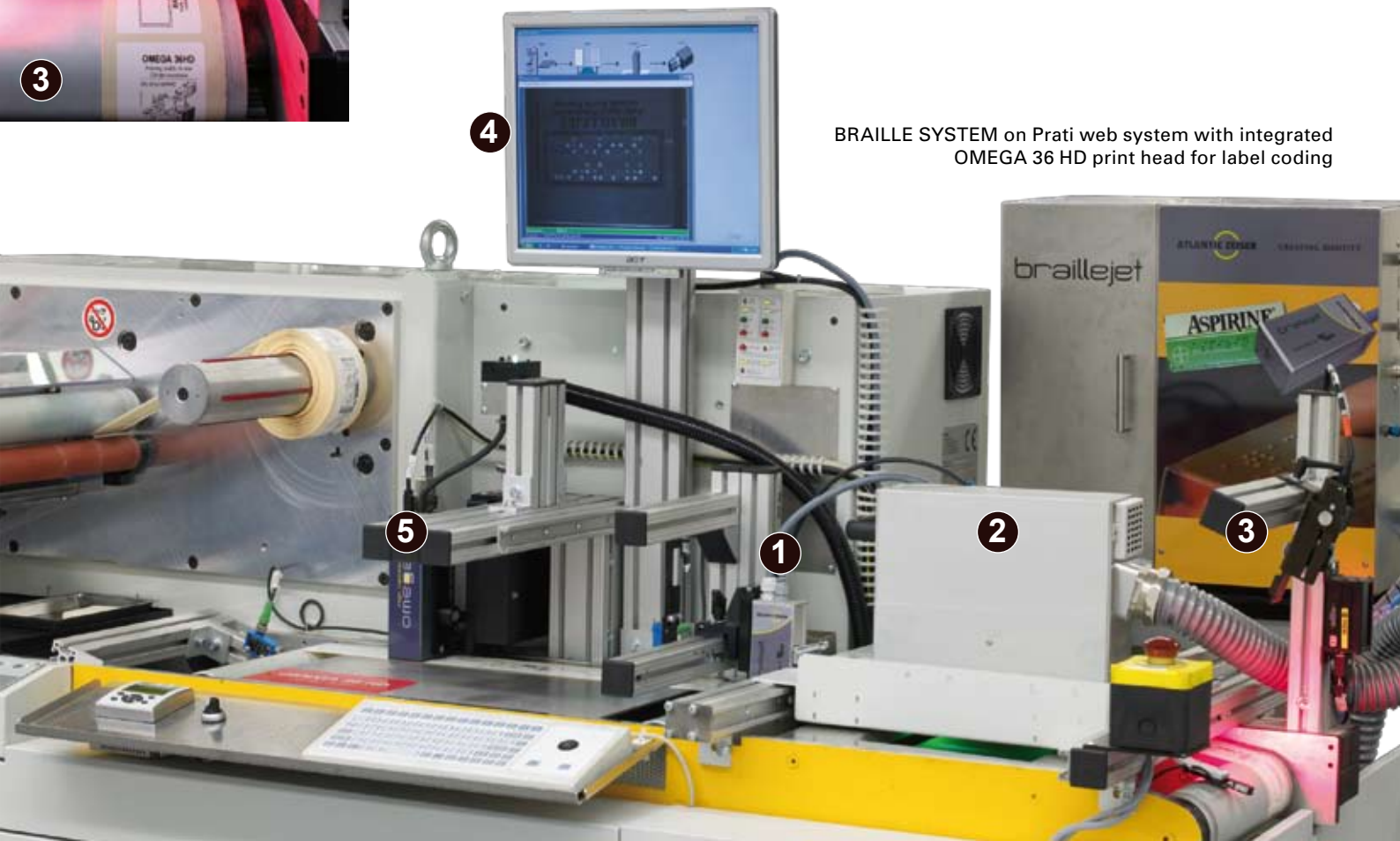


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One print head prints two lines of Braille simultaneously and it is possible to increase the number of lines through the easy installation of additional print heads.

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BRAILLE SYSTEM on Prati web system with integrated OMEGA 36 HD print head for label coding



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Technical Specifications	BRAILLEJET Print Head
Braille Letters	Marburg Medium; height of dots (adjustable): 0.2 – 0.3 mm / 9.84 – 13.78 mil
Print Speed	up to 36 m/min up to 118 ft/min
Print Position	horizontal
Ink	UV-drying special ink
Ink Consumption	up to 4 000 000 dots/kg
Substrates	Paper, Carton, PE, PA, PET, Aluminum
Power Supply	24V DC, 4 A
Pressure Range	6 bar
Interface	Ethernet, TCP/IP
Distance to Substrate	1 – 3 mm / 0.039 – 0.118 inch
Size of Print Module (2 lines module)	48 x 48 x 100 mm / 1.89 x 1.89 x 3.94 inch

Technical Specifications	BRAILLE VISION Camera
Type/Design	High resolution
Sensor Technology	CCD sensor, progressive scan
Evaluation Speed	up to 30 pictures/s
Resolution	1024 x 768
Lens Mount	C-mount
Dimensions	29 x 29 x 30 mm / 1.14 x 1.14 x 1.18 inch
Weight	50 g, without casing
Ambient Temperature	-5 to 40 °C