

CARDLINE®

High Speed Card Personalization End-to-End System Solution

ATLANTIC ZEISER

- Superior Cost-effective → Top Processing Speed → High Quality
- Security Label Printing → Scratch Off Labeling
- High Versatility → Operator-friendly



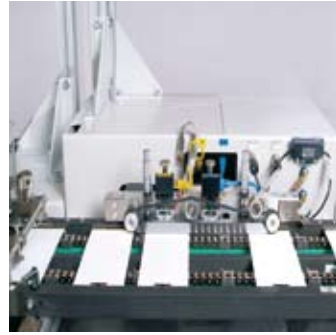
CARDLINE® – the modular, flexible high-speed card personalization system



1. Feeding Module

The high-speed friction belt feeder is equipped with a vertical card holder (pictured) that holds up to 800 cards, or a horizontal feeder belt that holds up to 2,000 cards (0.76 mm/30 mil).

Cards can be uploaded without stopping the machine. Complete double card detection provides suitable production control. The chain transport pusher and a lateral guide rail perfectly position the cards longitudinally and transversely.



2. Magnetic Encoding

High-speed magnetic encoding unit with a three-track write-and-read-head. Encoding can then take place on three independent tracks in either ISO 7811/2-LoCo or ISO 7811/6-HiCo. The encoded data is simultaneously read, transferred onto the dedicated realtime controller and compared with the production data.



3. Flipping Module

Flipping module for in-line processing of top and bottom sides of cards.



4. Inkjet Imagine Module

Inkjet printing offering different technologies for numerous application requirements:

- OMEGA™ printer line with top print resolution of up to 720 dpi and 210 mm (8.3 inches) printing width.
- Continuous-array jet (ALPHA™ 200) able to print on a wide range of substrates using solvent-based ink with 50.8 mm (2 inches) printing width; optimal for pincoded scratch-off cards.
- Single jet as an economic solution for simple applications.
- Specialty inks, including UV-curable inks in black and spot colors.



5. UV Curing Module

The UV curing module offers the use of UV-curable inks with the CARDLINE®, even at high production speeds, providing high abrasive resistance on plastic substrates in combination with AZ developed inks.

The modular CARDLINE® design offers great flexibility by combining different technologies for customized solutions:

- Feeding Module
- Magnetic Encoding Module
- Flipping Module
- Inkjet Imaging Module
- UV Curing Module
- Hotfoil Foil Saving Module
- Scratch-Off-Labeling Module
- Security Label Printing with Inkjet Systems
- Laser Marking Module
- Camera Inspection Module
- Shingle Delivery with Rejection Box
- Card Sort Module
- Host PC



6. Hotfoil Foil Saving Application Module

The hotfoil foil saving application module guarantees 50% saving on scratch-off foils. It allows the inline application of scratch-off foils, magnetic stripes and signature panels and fulfills the demands for the highest level of security and low cost per card. In addition, multiple hotfoil patches per card can be applied.

Atlantic Zeiser offers a comprehensive high speed hotfoil range. These hotfoils have been designed specially for use with the high speed hotfoil application module.



7. Scratch-Off-Labeling Module

X-Core Labeler holding considerably more labels for improved efficiency and reduced intervention time.

Frequently, PIN or ticket numbers have to be covered by a security label. The labeling unit is designed to enable various label locations on the card at the lowest costs.

Atlantic Zeiser high speed scratch-off security labels are developed for the CARDLINE® system. Labels are available as scratch-off labels, hologram labels or standard labels, in various cover materials and colors.



CARDLINE® -
modular design for
customized configurations



8. Security Label Printing with Inkjet Systems

If the labels require text or a logo for advertising or security purposes, an additional inkjet head can be added for overprinting on the labels.

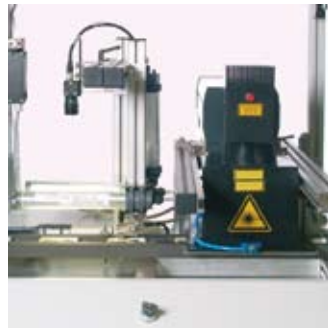


9. Laser Marking Module

Marking of cards with text, numbers, bar codes and binary graphics. Permanent, clean, reliable, flexible marking of cards. In place of, or in addition to, inkjet printing.

Available laser technology:

- Nd:YAG



10. VERICAM™ Camera Inspection Module

The VERICAM™ camera system provides 100 percent monitoring of printing and the correctness of data.

VERICAM™ reads and checks the different variable and fixed data (numbers, bar codes, logos, etc.) and compares them online with data from the production file, providing for permanent variance comparison accompanying the production process.

After the labeling or hotfoil application station, the VERICAM™ camera equipped with its own software ensures that cards with incorrectly applied labels or hotfoils are recognized and automatically ejected into the appropriate bin of the Card Sort module or a waste delivery unit.



11. Shingle Delivery with Rejection Box

Horizontal shingling belt for manual handling of cards. Cards with incorrect data, bad print resolution, incorrectly positioned label or poor quality mag stripe, are ejected into a separate box.



12. Card Sort Module

Alternatively, the Card Sort module allows efficient sorting and batching of personalized cards. It consists of four sort bins and allows the dynamic remake of cards during production, minimizes handling efforts and costs and reduces the risk of mishandling or fallouts. The software allows several production modes.



13. Host-PC

Simple operation and configuration of production jobs via the central host PC installed on a swivel mount. The Windows-based user interface offers the operator full control of individual modules and settings.

Bar code and mag stripe reader for immediate restart of interrupted production runs to prevent operating errors and to increase production quality.

CARDLINE® – Speed Up Your NET Production

Atlantic Zeiser unveils new features for CARDLINE® personalization system

Atlantic Zeiser, supplier of high-performance coding and personalization systems, is offering comprehensive optional packages for its CARDLINE® personalization systems. Combined with a higher production speed and faster set-up and start-up times, the new features offer greater net production and, therefore, lower costs per card. In addition, customers incorporating the latest generation of OMEGA™ printers also benefit from a much higher print quality. As prices in the card market continue to fall dramatically, the need for shorter cycle times leading to faster response times for personalization orders increases daily. In order to ensure maximum profit gain, Atlantic Zeiser will provide full support to the customers eager to extend the functions of their CARDLINE® system.



New Printer Generation

Option Package (1): New Generation of Inkjet Printers

The OMEGA™ drop-on-demand inkjet printer line provides customers with the ability to upgrade their systems in terms of print quality to a print resolution of up to 720 dpi. 1D and 2D bar codes as well as font sizes down to 4 points are flawlessly reproduced, ensuring optimal readability of bar codes, graphics, logos or text.

The OMEGA™ printer family consists of seven different models using SMARTCURE™ UV inks produced in-house by Atlantic Zeiser.

- OMEGA™ 36 UV inkjet heads – 36 mm print width at 360 or 720 dpi
- OMEGA™ 72 UV inkjet heads – 72 mm print width at 360 or 720 dpi
- OMEGA™ 210 UV inkjet head – 210 mm print width at 360 dpi
- OMEGA™ 70 P UV inkjet head (white ink) – 70 mm print width at 360 dpi



X-Core Labeler

Option Package (2): X-Core Label Module for Improved Efficiency

The "X-Core Module" allows cross-wound label rolls processing. Compared with conventional label rolls, the new label applicator-rolls hold considerably more labels on the same roll diameter. Consequently, label rolls are changed less frequently and improve the efficiency of the CARDLINE® system. In addition, this package comes with a vacuum waste extraction system for direct waste extraction, reducing intervention time.



Auto Start-up AccuStart™

Option Package (3): Auto Start-up AccuStart™

The third optional package presents an additional bar code and magnetic stripe reader to prevent operating errors and increase the quality of the production. This feature allows the immediate restart of interrupted production runs at the correct place. The operator simply uses the last card from the production line, scans the bar code or swipes it through the magnetic stripe reader. The system then automatically configures itself accordingly and starts up the production where it had left it.

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Technical Specifications	
Card Format	Thickness: 0.25 – 1.00 mm / 9.85 – 39.4 mil Length: 54 – 114.3 mm / 2.1 – 4.5 inches Width: 54 – 203.2 mm / 2.1 – 8 inches Limits with flipping module
Throughput	Up to 40,000 cards/h Depending on configuration, card material and format
Dimensions	Length: depending on configuration Width: approx. 870 mm 35.0 inches Height: approx. 2,115 mm 83.3 inches
Power Supply	400 VAC ± 5% / 50 Hz or 60 Hz / three phases + neutral + PE
Power Consumption	Depending on configuration
Ambient Temperature	5 – 30 °C
Relative Humidity	20 – 80% at 30 °C – not condensing
Compressed Air Supply	7 bar
Air Consumption	Depending on configuration
Exhaust	Depending on configuration