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Card Personalization End-to-End System Solution





Infeed

The high performance friction feeder unit for variable formats is equipped with a vertical card holder. For larger volumes, an optional horizontal product loader can be added.

The feeder system is synchronized to the speed of the main transport system. Optional pre-read camera/scanning devices are available.



Magnetic Encoding

Atlantic Zeiser's state-of-the-art high precision magnetic encoder allows full flexibility in magstripe encoding anywhere across the card, as well as from top down or bottom up.

This unit can be configured with an additional set of write/read heads for parallel encoding of up to two magstripes. Both TOP DOWN and BOTTOM UP encoding are standard.

Three-track HiCo and LoCo encoding utilizes the same ceramic write and read heads; HiCo up to 25,000 and LoCo up to 30,000 cards/hr.

Driven by a separate servo-drive for vibration-free card transport, encoding can take place on independent tracks in either ISO 7811/2-LoCo or ISO 7811/6-HiCo.



In-line Pre-treatment of Substrates

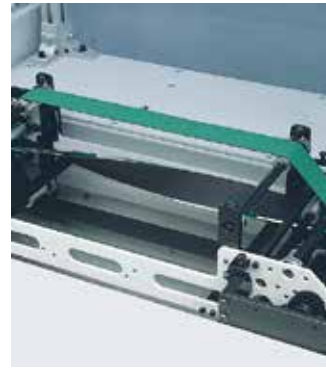
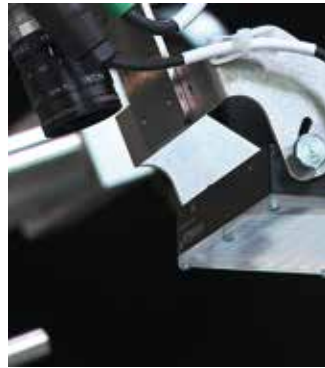
- Plasma Unit for better adhesion and print quality on challenging substrates
- Treatment widths up to 56 mm (2.2 inches)
- Fully integrated unit for perfect synchronization to card transport and feeder



Inkjet Imaging

Various binary DoD inkjet imaging solutions are available for high-quality alphanumeric and barcode printing and personalization, enabling high production speeds:

- OMEGA printers
QUAL*Impress* print mode with up to 720 dpi for font sizes as small as 2pt
- Print widths from 36 mm to 72 mm (1.42 to 2.83 inches)
- Atlantic Zeiser developed inks
- Spot color and white inks
- Multiple head configurations
- OMEGA 70 P for printing with white ink; print width 70 mm (2.75 inches)



UV Curing

Compact UV curing systems are fully shielded and integrated for Atlantic Zeiser developed UV curable inks that are available in black, white, as well as a variety of spot colors. Air cooled SENSECURE system for high speed applications and for white ink. Energy saving water-cooled SMARTCURE (UV LED system) for temperature-sensitive products.

- Compact design requiring less space than conventional UV drying units
- Energy saving and long-life curing unit

Print Verification

- VERICAM E intuitive user interface with drag-and-drop job setup on a touch screen
- 100% OCR verification, 1D/2D bar code reading
- Card orientation verification
- Improved reading performance by fading out of difficult backgrounds

Flipping

High-speed flipping module for single-pass front and back personalization of rectangular cards

- Quick changeover between flipping and straight-through units
- Inserts for various card dimensions available

Secure PIN Coverage Printing

This module offers an economical and highly secure alternative to scratch-off labeling and hot-foiling

- Low cost at high security
- PIN coverage printing for scratch-off multi-voucher and other card applications
- Combined with reliable and state-of-the-art DoD PIN print technology
- Greatest format flexibility
- Simple job set-up





Labeling

High-speed accurate wipe-on label unit for application of standard or custom security labels. The optional x-core function reduces roll changes and machine downtime. A user-friendly waste aspiration feature eliminates waste roll rewinding.

Label Verification

High-speed VERICAM E camera checks and verifies the position and integrity of each scratch-off security label.



Attaching

Attaching module with vertical feeder for precise application of the carrier onto the personalized card. The glue unit dispenses a spot or line of glue to attach the card securely to the carrier.



Delivery

System design allows a choice of two different delivery options:

- Shingle Delivery Unit includes waste gate and shingle delivery
- Dual-Shingle Delivery Unit (see picture above) includes waste gate, shingle delivery for remade cards, and shingle delivery for good cards



Auto Start-up

AccuStart allows for immediate and precise job restarts at the correct data record without re-programming.

PMP Personalization Management Platform

With the centralized PMP processor, orders can be automatically received from customers, scheduled and configured in a way that optimizes production flow.

- Allows centralized control of an entire card production factory, including legacy systems
- Automatic data handling for order input and machine management
- Production optimization through intelligent job distribution and production planning
- General material management
- Flexible reporting and audit functionalities

Other Features

The modular design allows configuration changes and additions.

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Configured to the needs of product designers and card manufacturers



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Combines state-of-the-art features to achieve greater flexibility, enhanced performance, with an operator-friendly and low-maintenance system design

- Quick set-up times and fast job changeover
- Integrated system performance up to 30,000 cards/hr
- Consistent production performance
- Adjustable high-speed magnetic encoding (HiCo, LoCo) including non-ISO positions
- Flexible positioning of personalization features
- QUALImpress print mode for brilliant print appearance
- Low energy SMARTCURE UV LED curing system
- Secure PIN module for cost-effective scratch-off security panel printing
- Inline attaching module for attaching carriers to the cards
- Flipping module for single pass personalization of both card sides
- Unique and accurate card alignment sections
- Low machine maintenance
- Easy machine accessibility
- Optional integrated audit trail with independent production report
- AccuStart – automatic in sequence restart
- Optional dual shingle delivery feature for insertion of remade cards

Technical Specifications CARDLINE VERSA	
Machine Dimensions	Typical configuration: 1 Infeed Module + 2 Transport Modules + 1 Shingle Delivery Length: 7900 mm 311.0 inches Width: 900 mm 35.4 inches Height: 2000 mm 78.7 inches
Product Dimensions*	CARDS/VOUCHERS Dimensions: Min. 85 x 54 mm (3.35 x 2.13 inches) – running direction x across Max. 305 x 198 mm (12 x 7.8 inches) – running direction x across Thickness: 0.25 – 1.0 mm (10 – 40 mil) Materials: PVC, ABS, Polyethylene (PE), Paper Warp: max. 0.5 mm (20 mil) – both directions CARRIERS Dimensions: Min. 54 x 50.6 mm (2.13 x 2 inches) – running direction x across Max. 254 x 198 mm (10 x 7.8 inches) – running direction x across Thickness: 0.25 – 3.175 mm (10 – 125 mil) for carrier + card Warp: max. 0.5 mm (20 mil) – both directions *Depending on the configuration of the machine, the format restrictions may be tighter.
Production Speed	Up to 30,000 cards/hr – depending on machine configuration, product format and substrate
Power Supply	400 VAC ±10% / 50 or 60 Hz / three phases + N + PE
Ambient Temperature	10 – 30 °C
Max. Altitude	Up to 2000 m (6561 ft)
Relative Humidity	40 – 80% at 25 °C not condensing
Compressed Air Supply	8 bar (116 psi), approx. 300 l/min depending on configuration