

cardline versa color

All-in-One Full-Color Card Production 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



CMS Professional Color Management Suite

- enables users to color-calibrate the four-color DoD inkjet print module to different card substrates
- Perfect color accuracy
 - Fully automated workflow
 - Unattended measurement and data analysis
 - Ease of use
 - Excellent long-term stability
 - Built-in self-calibration
 - Optimized for plastic card applications





Four-Color DoD Inkjet Printing

- High-precision card transport
- High-resolution 4C (CMYK) photo realistic card surface printing up to 950 dpi using UV-curable inks
- Print width 70 mm (2.76 inches)
- Full bleed or partial printing
- Real-time inline RIPing of variable data and images for streamlined card personalization
- Perfect adhesion to a wide variety of card materials and surfaces
- Integrated pinning unit per color for ultra-sharp images
- Inline color management using ICC profiles
- Atlantic Zeiser inks for high contrast, adhesion and market leading light fastness

UV Coating

- Spot or full-bleed UV varnish protection for extended card life
- Superior abrasion resistance and long-term durability
- Full digital spot coating or special 3D effects to embellish and outline selected card areas

UV Curing

- Fully shielded and integrated
- Perfectly tuned for Atlantic Zeiser-developed UV curable inks





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



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
- Multiple head configurations

UV Curing

Energy-saving water-cooled SMARTCURE UV LED system

- Compact design requires less space than conventional UV drying units
- Energy-saving, 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

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.



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

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Enhance creativity with color, coatings and other effects



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A true all-in-one solution for high-quality, full-color card products

- Complete card factory in a fraction of the footprint
- Field-proven CARDLINE VERSA personalization for long runs
- Perfectly suited for short runs of surface-printed cards
- Handles cards larger than CR80 and odd-shaped cards
- Lowest cost per card
- Full personalization capabilities
- Consistent 950 dpi resolution, job after job
- No make-ready time thanks to real-time inline RIPing of variable data
- Supports full edge-to-edge or spot UV varnishing
- Flipping module for single-pass personalization of both card faces
- Market-leading OMEGA HD technology for reverse-side printing in black
- Adjustable magnetic encoding (HiCo, LoCo) including non-ISO positions
- Fully modular with unique system configurations for every application

Technical Specifications	CARDLINE VERSA Color
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 *Excluding external supply units.
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, Paper Warp: max. 0.5 mm (20 mil) – both directions *Depending on the configuration of the machine, format restrictions may apply.
Production Speed*	Up to 5000 cards/hr with 4C print and varnish at ID1 product size Up to 8000 cards/hr with 4C print, without varnish at ID1 product size Up to 30 000 cards/hr with only binary printing active *All values 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), consumption depending on configuration