

NEW



PERSOSMART

Compact Color Edge-to-Edge Card Printing and Personalization System



**Atlantic
ZEISER**
a coesia company

PERSOSMART

INNOVATIVE FLAT CARD PRINTING AND PERSONALIZATION SOLUTION FOR UNIQUE AND STRIKING CARD DESIGNS

Extremely compact, versatile, and cost-effective, coupled with exceptional print quality – the new PERSOSMART makes it easier than ever to fully enter the personalization of flat cards.

The PERSOSMART includes a number of game changing innovations including what Atlantic Zeiser calls its "ProFlo" technology, designed for unprecedented inline printing reliability and print-on-demand availability. ProFlo's advanced ink circulation technology with active nozzle cleaning effortlessly supports highly pigmented inks. Increased color variety, faster, more vivid, with fine printed details, easy to operate, with lower maintenance efforts, and with reduced start-up time, the **OMEGA ProFlo** printer is designed to offer operational and printing excellence

The PERSOSMART requires only one single drop-on-demand (DoD) inkjet printing module to print two-sided cards. Whether operating as the main production line or as a cost-effective backup for an existing larger line – the PERSOSMART gives peace of mind to personalization bureaus and other service providers alike.

The PERSOSMART is perfect for implementing all the latest trends in card design:

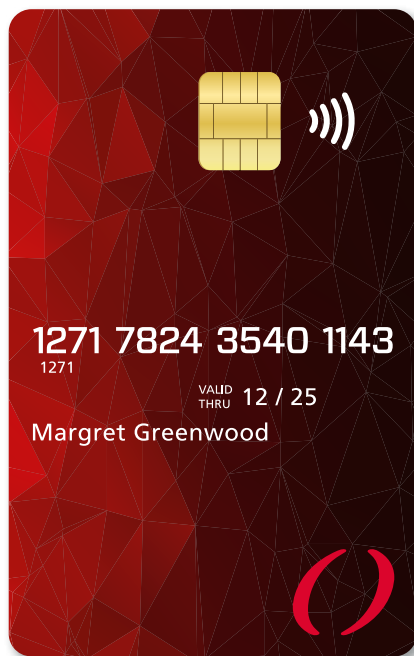
- Full-color edge-to-edge printing for a great look and feel offers an ideal opportunity to customize credit and debit cards, ID and voters cards, healthcare cards, and even loyalty or gift cards.
- DoD printing gives designers nearly unlimited freedom when configuring the personal data that appear on the cards, even with vertical card layouts.
- The PERSOSMART embraces the current trend of migrating from embossed to flat cards in the banking market.
- Compelling print quality is assured with fashionable matte cards and hybrid metallic cards.
- For an extremely elegant look on dark surfaces, the printer can also use high-quality opaque white ink.

With the batch sizes becoming smaller and smaller, and the increasing layout variety, the PERSOSMART offers outstanding flexibility alongside an extremely low total cost of ownership.

- Powerful and flexible platform for individual system configuration
- Only one single inkjet printing module to print front and rear sides of the cards
- High quality drop-on-demand (DoD) inkjet printing in deep black, opaque white, crispy CMYK – using latest ProFlo inkjet technology
- Perfectly integrates with a wide variety of personalization software solutions
- Lowest cost per card
- Throughput up to 1,500 cards per hour in monochrome (1,200 in color) – dependent on machine configuration

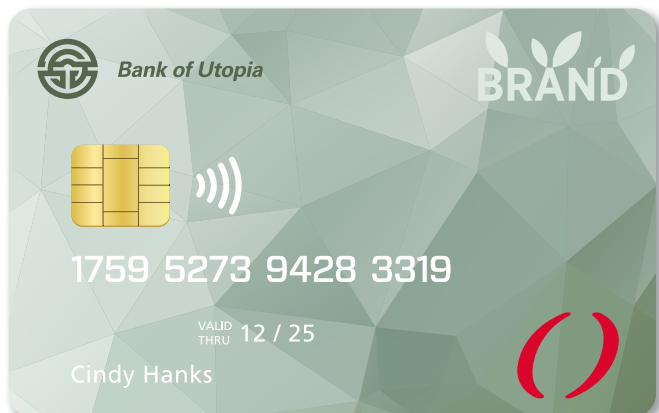
PERSOSMART

TAKING THE CARD PRINTING AND PERSONALIZATION OPERATIONS TO THE NEXT LEVEL



Full-color edge-to-edge artwork print and personalization starting from blank or pre-printed cards.

- Horizontal and vertical card designs
- Flexible positioning of personalization data
- Compelling print quality
- Edge-to-edge or spot UV varnishing
- Laser marking combined with color printing



PERSOSMART

HIGHLY FLEXIBLE AND VERSATILE PERSONALIZATION SYSTEM TARGETED AT HIGH VARIANCE AND SMALL BATCH FULFILLMENT

SYSTEM MODULARITY

Powerful and flexible platform that can be easily configured with different system modules to handle specific applications.

INPUT

- Reloading of cards without stopping
- Feeding process prevents scratching of card surfaces; processing of glossy cards possible
- Extension kit for processing of metal cards available
- Second input (optional)

PRODUCT ID VERIFICATION

- VERICAM Pro camera verification to check correct preparation of rainbow decks
- Card orientation verification
- Fast setup, no layout parameters required for teach-in
- X/Y print registration function for precise positioning of personalized content

MAGNETIC ENCODING

- Three-track HiCo and LoCo ISO encoding
- High precision encoding with the card in a static position
- Extension kit for JIS2 encoding available as factory option

CHIP ENCODING

- High-speed encoding of contact, contactless or dual interface cards
- Scalable number of chip programming heads (up to 12)
- Industrial standard readers allow easy integration into existing customer infrastructure
- All heads are equipped with antennas and contact pins

LASER MARKING

- Grayscale laser marking
- Uses end-pumped solid-state laser units
- Embedded flipping feature for processing both card faces with one single laser (optional)
- MLI and CLI laser marking module (optional)

PLASMA TREATMENT

- Plasma unit for better adhesion and print quality on challenging substrates
- Treatment widths covers full card



OMEGA PROFLO DOD PRINTING

- ProFlo inkjet technology designed for unprecedented inline printing reliability and print on demand availability
- Robust edge-to-edge full-color DoD printing without any impact on system performance
- 600 dpi high-resolution deep black or opaque white DoD personalization of 1D/2D codes, biodata, MRZ, PDF 417 codes, fingerprints and other data
- Superior abrasion resistance and adhesion to a wide variety of card materials and surfaces
- Atlantic Zeiser application tailored inks for high contrast, graphical resolution and superior durability
- On the fly RIPing
- Full data driven operation without impacting machine performance

AUTOMATED CLEANING

- Highest level of production yield due to fully automated cleaning
- Minimum operator interaction
- Minimized down time

UV CURING

- Air-cooled LED curing
- Maintenance-free, no liquid coolant
- Increased productivity with instant on/off

UV VARNISH

- Varnish protection for extended card life and security
- Superior abrasion resistance and long-term durability
- Edge-to-edge or spot color varnish to embellish and outline selected card areas

VERICAM PRO PRINT VERIFICATION

- 100% OCV (Optical Character Verification), 1D/2D code reading
- Secure print verification independent of card backgrounds

PRE-PRINTED AND PRINT-ON-DEMAND LABELING

- Inline application of pre-printed activation labels
- Handles a wide variety of label dimensions
- No tooling required for different label sizes
- Print-on-demand label application to apply blank white labels and personalize it on the fly

OUTPUT STACK SORTING

- Allows card-only production
- Cards can be unloaded without stopping the machine

CONTROL PC AND DATA MANAGEMENT

- Full rainbow capabilities
- Intuitive user interface
- Windows based
- Handles a wide variety of file formats

OPEN DLL INTERFACE

- Customer-based interfacing with external data sources
- Easy integration with external chip personalization platforms

CHIP PERSONALIZATION SOFTWARE

- Independent solution supporting a wide variety of different personalization machine models from various vendors
- Supports a wide variety of chip vendors
- Handles both global platform and proprietary cards
- Offers one-step data preparation requiring less hardware using the same server hosting both data preparation and personalization
- Modular architecture

MAILING

Atlantic Zeiser offers a stand-alone mailing system: the [MAILMASTER](#)



MODULES AND OPTIONS AT A GLANCE

INPUT

PRODUCT ID VERIFICATION

MAGNETIC ENCODING

CHIP ENCODING

LASER MARKING

PLASMA TREATMENT

DOD PRINTING – MONOCHROME OR FULL-COLOR WITH AUTOMATED CLEANING

UV CURING

UV VARNISH

PRINT VERIFICATION

PRE-PRINTED LABELING

PRINT-ON-DEMAND LABELING

OUTPUT STACK SORTING

CONTROL PC AND DATA MANAGEMENT

OPEN DLL INTERFACE

CHIP PERSONALIZATION SOFTWARE

| Technical Specifications | PERSOSMART |
|--------------------------|---|
| Card Formats | ID-1/CR80 format according to ISO/IEC 7810 Thickness: 0.76 mm 30 mil Length: 85.6 mm 3.37 inches Width: 54 mm 2.13 inches |
| Dimensions | Dependent on machine configuration Machine configuration: Input, Magnetic Encoding, Chip Programming, DoD Printing and Output modules Length: 4,400 mm 173.22 inches Width: 1,000 mm 39.37 inches Height: 1,900 mm 74.80 inches |
| Power Supply | 400VAC $\pm 10\%$ / 50 or 60Hz / three phases + N + PE |
| Power Consumption | Dependent on configuration |
| Ambient Temperature | 15 – 30°C |
| Relative Humidity | 40 – 60% at 25°C – non-condensing |
| Compressed Air Supply | 7 bar positive air, clean and dry |
| Air Consumption | Dependent on machine configuration |
| Exhaust | Dependent on machine configuration |

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COESIA is a group of companies specialized in highly innovative industrial and packaging solutions, headquartered in Bologna, Italy.

Coesia's companies are leaders in the sectors of:

- **Advanced automated machinery and packaging materials**
- **Industrial process solutions**
- **Precision gears**

Coesia's customers are leaders in a wide range of market sectors, including Aerospace, Ceramics, Consumer Goods, Electronics, Healthcare, Luxury Goods, Pharmaceutical, Racing & Automotive and Tobacco.



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