PERSOSMART
Compact Flat Card Personalization System

Atlantic ZEISER

a **coesia** company

PERSOSMART
HIGHLY FLEXIBLE, MEDIUM CAPACITY PERSONALIZATION SYSTEM TARGETED AT HIGH VARIANCE AND SMALL BATCH FULFILLMENT

Extremely compact, versatile and easy on the budget, coupled with exceptional digital print quality – the new PERSOSMART makes it easier than ever to enter the fully digital personalization of flat credit and debit cards. 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:

- DoD printing gives designers nearly unlimited free-dom 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.

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 PROGRAMMING

- High-speed programming 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

PLASMA TREATMENT

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

OMEGA PROFLO DOD PRINTING

- Robust deep black or opaque white graphical DoD personalization
- Superior abrasion resistance and adhesion to a wide variety of card materials and surfaces
- 600 dpi high-resolution for ultra-compact printing of 2D codes and bar codes
- Atlantic Zeiser inks for high contrast, graphical resolution and superior durability
- On the fly RIPing
- Full data driven operation without impacting machine performance
- Data driven change-over between black and white

AUTOMATED CLEANING

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

UV CURING

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

VERICAM PRO PRINT VERIFICATION

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

OUTPUT STACK SORTING

- Allows card-only production
- Cards can be unloaded without stopping the machine
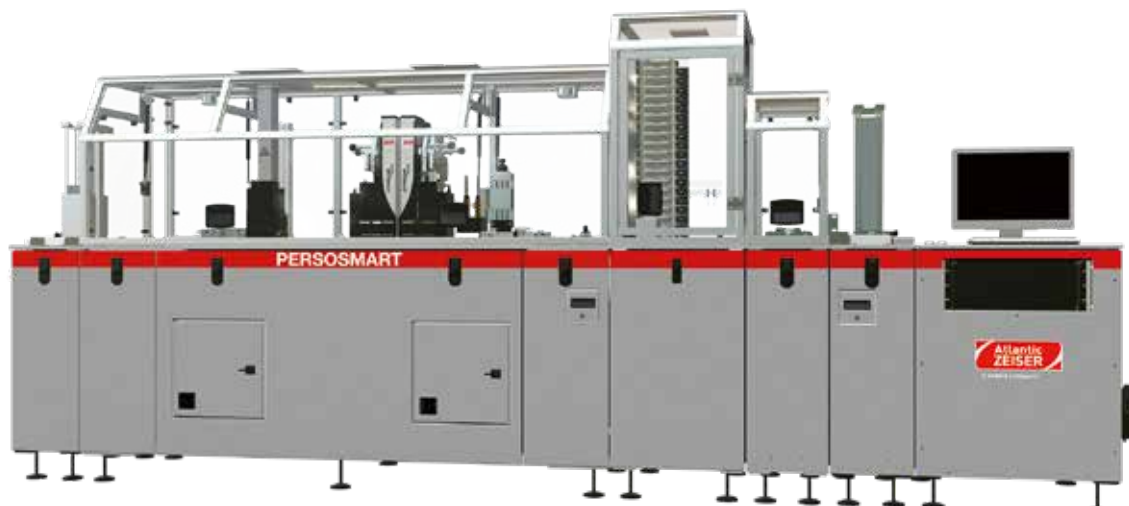
CONTROL PC AND DATA MANAGEMENT

- 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

EMV BANKING 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
- Alternatively EMV data preparation in batch mode
- Modular architecture

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 (as shown) Length: 4,400 mm — 173.22 inches Width: 1,000 mm — 39.37 inches Height: 1,900 mm — 74.80 inches
Power Supply	400VAC ±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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• **Industrial process solutions**
• **Precision gears**

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