PERSO*LINE* **FINANCIAL**

Banking and Prepaid Financial Card Personalization
End-to-End System Solution

¬ Lowest Cost of Ownership per Card ¬ DoD-based Graphical Personalization
¬ Scalable Chip Programming ¬ Top Processing Speed ¬ High Quality
¬ High Versatility ¬ Operator-friendly

ATLANTIC ZEISER

PERSOLINE FINANCIAL
Superior Cost-effective Banking and Prepaid Financial Card Personalization

Get ready for the upcoming demand for personalization of Banking and Prepaid Financial Cards

PERSOLINE addresses the market demand for a single pass card personalization solution that can efficiently process larger quantities of banking and prepaid financial cards at lower costs leveraging on the advantages of the DOD Inkjet printing technology.

DoD inkjet printing has been approved by most of financial schemes like VISA, MasterCard and American Express for card personalization and in contrast to nostalgic technologies like embossing, indenting or thermal printing it combines high processing speeds with lowest consumable costs and superior abrasion resistance.

PERSOLINE Financial is the next generation solution for cost effective personalization of banking and prepaid financial cards ranging from simple magstripe cards up to fully-blow SDA or DDA based EMV cards. Leveraging on the system's high processing speed and the significantly lower consumable cost, Perso Bureaus will be able to increase their market share by shortening their lead-time and increase their profit addressing the booming prepaid card personalization market.

One important integrated feature is high quality no matter whether printing in black or white providing and improved look and feel for all card artworks whether light or dark.

1. Input Module
- Automatic reloading reducing labor cost
- Continuous production during reloading
- Feeder concept with standardized card magazines for both input and output
- Feeding process prevents scratching of card surfaces allowing processing of high glossy cards
- Simple card handling

2. Chip Programming Module
- High-speed chip programming of contactless, SDA and DDA cards
- Scalable number of programming heads
- Embedded flipping device; cards can be flipped at the input and/or output of the module
- Industrial standard readers allow easy integration into existing customer infrastructure

3. Magnetic Encoding Module
- Bottom up and top down encoding
- Three-track HiCo and LoCo encoding utilizing the same ceramic write and read heads
- The entire encoding process is implemented in software running on a digital signal processor allowing simple upgradability for changed needs and on time quality control

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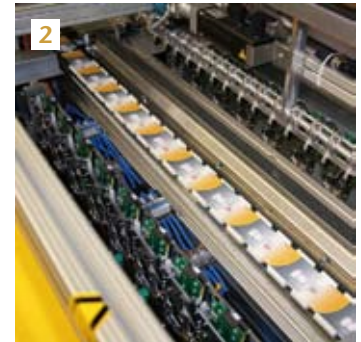**Boost your productivity in the globally booming Banking and Financial Prepaid card market:**

Your Competitive Edge
- **High-resolution** black and white ink graphical DoD personalization printing technology allowed by all major payment schemes like VISA, MasterCard, Amex, etc.
- **Low** personalization cost per card
- **Scalable** number of chip programming heads
- **High** processing speed of up to 8,000 cards/h
- **Complete** smart card personalization platform for contact and contactless cards

4. Binary DoD Module
- Perfect adhesion to a wide variety of card materials and surfaces; technology allowed by all major payment schemes like VISA, MasterCard and AMEX
- Innovative Atlantic Zeiser OMEGA inkjet printer
- High contrast and robust graphical personalization
- High-resolution with up to 720 x 720 dpi for ultra-compact card activation bar code printing
- Printing width of up to 72 mm (2.84 inches)
- Atlantic Zeiser inks for high contrast and superior adhesion

5. SMARTCURE™ UV LED Curing
- Ultra-fast UV curing
- Increased lifetime
- Eco-friendly
- Energy-saving

6. VERICAM™ Camera Inspection
- 100% OCR verification
- Advanced graphical user interface (GUI)
- Automatic learning functions and plausibility checks
- Verifies both variable as well as fixed data
- Online comparison with production file

7. Flipping Module
- For graphical personalization of both card faces

8. Label Application Module
- Inline application of scratch label

9. Stack Sorting Module
- 4 standard card magazines (expandable up to 8 magazines)
- Same card magazines for feeding and sorting ensure easy handling
- Freely configurable sorting

10. Machine Control and Production Software
- Supreme Atlantic Zeiser real-time platform BLS
- Wireless remote control increases operator flexibility

11. Software Suite PMP-production
- Manages the entire card personalization process
- High security platform fulfills certification requirements of the banking and ID market
- Flexible and secure chip personalization using Global platform scripting
- Unique data handling for order input and machine management
- Production optimization by intelligent job distribution and production planning
- Lifecycle tracking for each card by PMP stock management functionality
- General material management
- Flexible reporting and audit functionalities

12. Independent Modules
- Flexible, expandable configuration for quick and easy interchangeability and upgradeability

Modular Concept – PERSOLINE – The Platform

Atlantic Zeiser developed PERSOLINE as a powerful and flexible platform that can be easily configured with different system modules to handle a wide variety of applications.
PERSOLINE is a very flexible high volume personalization solution for simple to most complex, graphical and electrical personalization applications:

- ID cards (government & corporate)
- Access cards & Driving licenses
- Flat financial cards
- Health care cards
- SIM cards / Pay-TV cards

Technical Specifications	
Card Formats	ID-1/CR80 format according to ISO/IEC 7810 Thickness: 0.4 – 1.00 mm 15.75 – 39.4 mil Length: 86 mm 3.38 inches Width: 54 mm 2.13 inches
Production Speed	Up to 8,000 cards/hour (depending on configuration and/or application)
Dimensions	Length: depending on configuration Width: depending on configuration Height: 1,490 mm 58.7 inches
Power Supply	400 VAC ± 5% / 50 Hz or 60 Hz / 3 phases + N + PE
Power Consumption	Depending on configuration
Ambient Temperature	10 – 30 °C
Relative Humidity	20 – 80% at 25 °C – non-condensing
Compressed Air Supply	7 bar positive air
Air Consumption	Depending on configuration
Exhaust	Depending on configuration