

persoline

Premium Card Personalization System



persoline
Superior Cost-effective
ID Card Personalization

PERSOLINE is a flexible and modular production solution that enables full-color personalization of ID cards with high levels of durability and security. The system combines the benefits of several technologies: laser personalization, four-color DoD inkjet printing, digital UV varnishing and CoolShield security lamination.

PERSOLINE handles up to 6000 cards per hour in four-color personalization with a significantly lower cost for consumables in comparison with alternative solutions. In combination with the security lamination „CoolShield“, PERSOLINE delivers a strong performance/price ratio. The PERSOLINE also excels as a single card artwork printing solution for cost-effectively producing small batches of commercial cards.

PERSOLINE can laser-mark a small gray-scale photograph and print the same image in color using DoD inkjet printing, then cover it with a UV varnish for durability. Another method is to add a holographic patch laminate covering the entire personalization content for superior security by applying a special CoolShield technique. The patch laminate is also highly durable and abrasion-resistant, since it contains a top plastic layer.

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Boost your productivity in the globally booming ID card market

Your Competitive Edge

- Produce long-lasting color personalization
- Combine laser and color
- Achieve superior card durability with UV varnishing
- Add UV lamination for greatest fraud resistance
- Enjoy lowest cost per card
- Scalable chip programming solution



Input



Chip Programming

Input

- Automatic card reloading for reduced manning
- Feeder with standardized card magazines
- Feeding process prevents scratching of card surfaces, processing of glossy cards possible
- Simple card handling

Chip Programming

- High-speed chip programming coping with the most complex personalization requirements
- Scalable number of chip 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
- Programming of contact and contactless cards

Four-Color DoD Inkjet Printing

- Perfect adhesion to a wide variety of card materials and surfaces
- High-resolution 4C (CMYK) photo realistic card printing with up to 950 dpi with UV curable inks
- Full bleed printing of cards artworks through covering full ID-1/CR-80 card format
- Spot printing of artwork pre-printed cards supported
- Inline color management using ICC profiles
- Atlantic Zeiser inks for high contrast and adhesion

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
- Print registration feature to precisely position personalized content on displaced card artwork
- Card orientation verification
- Improved reading performance by fading out of difficult backgrounds



Four-Color DoD Printing



Inkjet Imaging



Laser Marking



Output/Stack Sorting

Lamination

- Cold security lamination "CoolShield"
- Allows for great flexibility in the choice of card materials
- Cost efficiency along with high throughput
- Freely configurable partial lamination on CR80 cards (patent pending)
- Industry leading speed of up to 6000 cards/hr

UV Coating

- Spot or full bleed varnish protection for extended card life
- Superior abrasion resistance and long-term durability
- Spot coating to embellish and outline selected card areas
- Industry leading speed of up to 6000 cards/hr

Inkjet Imaging

- Deep black and robust graphical personalization
- Superior adhesion to a wide variety of card materials and surfaces
- High-resolution with 720 x 720 dpi for ultra-compact bar code printing
- Printing width covering full ID-1/CR-80 card format
- Atlantic Zeiser inks for high contrast and graphical resolution

UV Curing

- Ultra-fast UV curing
- Increased lifetime
- Eco-friendly

Laser Marking

- Grayscale laser marking
- Configurable with Fiber Grayscale or Vanadat lasers
- Optionally equipped with embedded flipping feature for processing both card faces with one single laser

Flipping

- Allows inline processing of both card faces at full speed
- Push-button changeover between the flipping and non-flipping mode
- Reliable and field-proven design

Output/Stack Sorting

- 4 standard card magazines
- Configurable sorting
- Same card magazines for feeding and sorting ensure easy handling

Modularity

- Flexible, expandable configuration for quick and easy interchangeability and upgradability

PMP Personalization Management Platform

- PMP-production is a holistic approach for managing the entire card production and fulfillment process throughout your factory
- Flexible and secure chip personalization
- Automatic data handling for order input and machine management
- Production optimization by intelligent job distribution and production planning
- General material management
- Flexible reporting and audit functionalities



Modular concept PERSOLINE platform

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

- ID cards (government & corporate)
- Access cards & driving licenses
- Healthcare cards
- Open loop prepaid financial cards

Technical Specifications	PERSOLINE
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 3.39 inches Width: 54 mm 2.13 inches
Production Speed	Up to 6000 cards/hr (including four-color module, depending on card material and/or application)
Dimensions	Length: depending on configuration Width: depending on configuration Height: 1490 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

Atlantic Zeiser's excellent service and support

- Efficient preventive and corrective maintenance
- Fast emergency and extended service support
- Installation and start-up support
- Remote service support and hotline
- Customized and individual after-sales service concepts
- Tailor-made service contracts
- Professional training and workshops
- Worldwide service network with local service teams incl. part and supply service
- Consulting

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