persoline SIM
SIM Card Personalization System
Cost-effective Personalization of SIM and Pay-TV Cards

PERSOLINE SIM is a modular personalization system for electrical and graphical personalization for all types of SIM and Pay-TV cards at unmatched productivity.

PERSOLINE SIM supports a maximum machine speed of 6000 cards per hour – this speed can be sustained even for extensive graphical personalization requirements like multiple bar codes with DoD printing technology as well as for long chip programming times.

The PERSOLINE SIM enables card producers to cost-effectively boost their productivity in the globally booming markets for SIM cards. However since the PERSOLINE is a fully modular personalization platform for virtually any smart card application – both contact and contactless – this high-end personalization solution can be expanded as needed to meet new production requirements.

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

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/CUR-80 card format
• Atlantic Zeiser inks for high contrast and graphical resolution

Your Competitive Edge
• High processing speed of up to 6000 cards/hr
• Low personalization cost per card
• High-resolution 720 x 720 dpi graphical DoD personalization
• Scalable chip programming solution of up to 60 programming heads
• Full smart card personalization platform for contact and contactless cards
UV Curing
- Ultra-fast UV curing
- Increased lifetime
- Eco-friendly

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

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

Label Application
- Inline application and graphical personalization of labels for MVNO SIM card packages

Laser Marking
- Binary high speed laser marking
- Configurable with superior fiber lasers
- Optionally equipped with embedded flipping feature for processing both card faces with one single laser

Output/Stack Sorting
- 4 standard card magazines
- Configurable sorting
- Same card magazines for feeding and sorting ensure easy handling

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

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:

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

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>PERSOLINE SIM</th>
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<tbody>
<tr>
<td>Card Formats</td>
<td>ID-1/CRI80 format according to ISO/IEC 7810</td>
</tr>
<tr>
<td></td>
<td>Thickness: 0.4 – 1.00 mm 15.75 – 39.4 mil</td>
</tr>
<tr>
<td></td>
<td>Length: 86 mm 3.38 inches</td>
</tr>
<tr>
<td></td>
<td>Width: 54 mm 2.13 inches</td>
</tr>
<tr>
<td>Production Speed</td>
<td>Up to 6000 cards/hr (depending on card material and/or application)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Length: depending on configuration</td>
</tr>
<tr>
<td></td>
<td>Width: depending on configuration</td>
</tr>
<tr>
<td></td>
<td>Height: 1490 mm 58.7 inches</td>
</tr>
<tr>
<td>Power Supply</td>
<td>400 VAC ± 5% / 50 Hz or 60 Hz / 3 phases + N + PE</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Depending on configuration</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>10 – 30 °C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>20 – 80% at 25 °C – non-condensing</td>
</tr>
<tr>
<td>Compressed Air Supply</td>
<td>7 bar positive air</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>Depending on configuration</td>
</tr>
<tr>
<td>Exhaust</td>
<td>Depending on configuration</td>
</tr>
</tbody>
</table>

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