REPUBLIC OF UTOPIA
IDENTITY CARD

SURNAME
PEREZ

GIVEN NAMES
ROSA

SEX   NATIONALITY
F   UTO

DATE OF BIRTH
18.10.1986

DOCUMENT NUMBER
140896267

DATE OF EXPIRY
17.11.2036

SIGNATURE
Rosa Perez

175 cm

2019

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PERSOMASTER Pro
ID Card Personalization System

Atlantic ZEISER

a **coesia** company

PERSOMASTER PRO
DURABLE COLOR PERSONALIZATION AT REDUCED COSTS

- Long-lasting color personalization
- High-resolution personalization in black, white, and color – using latest ProFlo inkjet technology
- Laser marking combined with color printing for greatest fraud protection
- In-house developed inks for sharper results (deep black, opaque white, crispy CMYK)
- Scalable chip encoding
- Perfectly integrates with a wide variety of ID personalization software solutions
- Lowest cost per card

PERSOMASTER PRO
ECONOMIC AND FLEXIBLE PERSONALIZATION OF GOVERNMENT ID CARDS WITH EXCEPTIONAL PROTECTION AGAINST FORGERY

Government eID Cards are in most cases an indispensable basis for digital transformation. Whether National Identity cards, driver's licenses, voter ID or healthcare cards, PERSOMASTER Pro allows efficient personalization in color or black and white with highest durability.

In order to achieve a high level of security, PERSOMASTER Pro can combine drop-on-demand (DoD) inkjet printing with grayscale laser technology. In this configuration, the black channel of the cardholder's photograph is laser marked into an inner layer of the card material. The color channels of the cardholder's photograph are printed by UV color ink.

PERSOMASTER Pro is equipped with the latest OMEGA ProFlo inkjet printer, an enhanced version of its successful OMEAGA Pro printer. The OMEGA ProFlo's advanced ink circulation technology with active nozzle cleaning effortlessly supports highly pigmented inks.
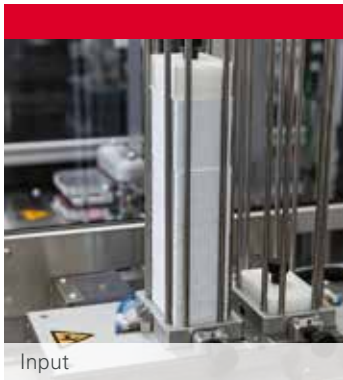
Faster with fine printed details, easy to operate, with lower maintenance efforts, and with reduced start-up time, the OMEGA ProFlo is Atlantic Zeiser's newest printer – designed to get the job done, inline.

To increase security and durability, PERSOMASTER Pro can optionally be equipped with a varnish module. ID cards personalized by PERSOMASTER Pro using this technology have been qualified by FOGRA for ISO 24789 and 10373 compliance. Furthermore, DoD printing technology allows ICAO-compliant personalization.

PERSOMASTER Pro processes up to 3,000 [1] cards per hour in full-color personalization with a significantly lower cost for consumables, compared to alternative solutions.

[1] Production speeds can vary depending on machine configuration, card and job type.

Input

Chip Programming

Laser Marking | X/Y Registration

OMEGA ProFlo Drop-on-Demand Inkjet Printing

VERICAM Pro Print Verification

Flipping

Mailing (offline)

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
- Simple card handling

CHIP ENCODING

- High-speed encoding coping the most complex personalization requirements
- Scalable number of chip programming heads (up to 21)
- Industrial standard readers allow easy integration into existing customer infrastructure
- Encoding of contact, contact-less or dual interface cards
- 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)

VERICAM PRO PRINT REGISTRATION

- X/Y print registration function for precise positioning of personalized content

PLASMA TREATMENT

- Plasma unit for perfect adhesion and print quality on challenging substrates covering the full card

OMEGA PROFLO DOD PRINTING

- Vivid and robust color DoD printing without any impact on system performance
- Robust deep black or opaque white DoD personalization of biodata, MRZ, PDF 417 codes, fingerprints and other data
- 600 dpi high-resolution printing
- Superior abrasion resistance and adhesion to a wide variety of card materials and surfaces
- Atlantic Zeiser inks for high contrast, graphical resolution and superior durability

AUTOMATED CLEANING

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

UV VARNISH

- Varnish protection for extended card life and security
- Superior abrasion resistance and long-term durability
- Spot varnish to embellish and outline selected card areas

AZ PRINT ENGINE

- On the fly RIPing
- Full data driven operation without impacting machine performance

UV CURING

- Air-cooled LED curing
- 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

FLIPPING AND BUFFER

- Allows inline processing of both card faces at full speed
- Reduced reject rates due to the buffer design allows emptying of upstream modules during a down-stream stop

OPEN DLL INTERFACE

- Customer-based interfacing with external data sources
- Easy integration with external personalization platforms
- Open interface not restricting customer development, i.e. no digital signatures required for customer-developed DLLs

OUTPUT STACK SORTING

- Allows card-only production
- Cards can be unloaded without stopping the machine
- Automatic change of magazines

CONTROL PC AND DATA MANAGEMENT

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

ID 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 ID cards
- ID data preparation in single step or batch mode
- Modular architecture

MAILING

Atlantic Zeiser offers a stand-alone mailing system: the MAILMASTER

Technical Specifications	PERSOMASTER Pro		
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
Production Speeds*	Up to 3,000 cards/hr – max. speeds can be higher or lower, depending on machine configuration, card and job type		
Dimensions	Length:	dependent on configuration	
	Width:	dependent on configuration	
	Height:	1,815 mm	71.5 inches
Power Supply	400 VAC ±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 configuration		
Exhaust	Dependent on configuration		

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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