

# ruhlamat – the leading supplier of advanced solutions for passport personalisation

ruhlamat is a leading supplier of advanced solutions for the personalisation and quality control of passports and e-passports.

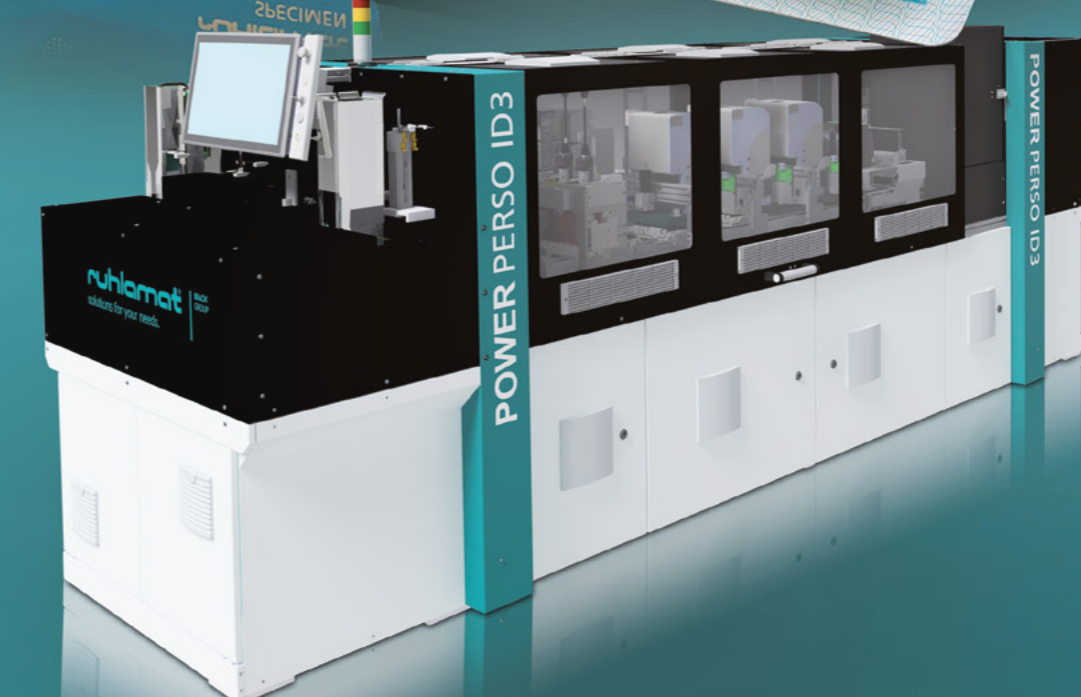
As experienced machine manufacturer, we do our very best to meet every customer requirement, no matter how unique or challenging. We develop and produce functional, affordable and scalable solutions, which ensure full compliance with the ICAO and ISO standards surrounding the issuance and security of MRTDs.

Our reliable state-of-the-art solutions, as well as our unrivalled expertise, has resulted in various successful project installations around the world.

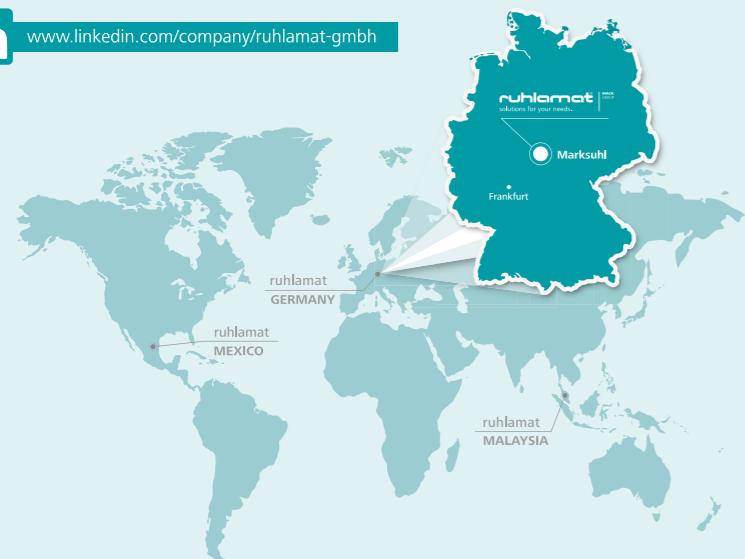
ruhlamat – customised machine solutions for

- > Chip Module Production
- > RFID Inlay Production
- > Card Personalisation
- > Card Quality Control
- > Passport Personalisation
- > Passport Quality Control
- > Special Machinery

## ePassport Personalisation



 [www.linkedin.com/company/ruhlamat-gmbh](http://www.linkedin.com/company/ruhlamat-gmbh)



**ruhlamat** MACK GROUP  
solutions for your needs.

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State-of-the-art ePassport processing solutions worldwide.



**e-PASSPORT**

LASER PROTECTED IMAGE



PERSONALISATION (LASER, HD DOD COLOUR - INKJET)



LASER ENGRAVING - MLI/CLI



RFID CHIP ENCODING



**Security Features PowerPerso ID3**

- > Clear Laser
- > Foil Application incl. Holographic Features
- > Tactile Laser Engraving
- > Wave Text
- > QR-Code
- > FUSE-ID
- > MRZ
- > IPI
- > DLI
- > MLI/CLI
- > UV Print
- > Photo Perforation
- > Perflex Perforation

**PowerPerso ID3**  
Personalisation



**HD DOD**  
industrial colour printing  
**1.200 DPI**

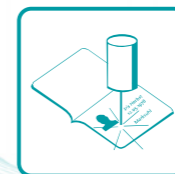
Fully automatic high-speed machine for centralised personalisation of passports and e-passports.



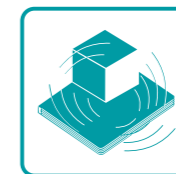
HD DOD INDUSTRIAL COLOUR PRINTING



INLINE SECURITY LAMINATION



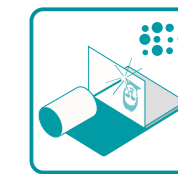
LASER ENGRAVING



RFID CHIP ENCODING



OPTICAL INSPECTION



MICROPERFORATION - DLI

**Benefits and features:**

- > Drop on Demand high-speed colour printing, laser engraving or a combination of both technologies
- > Highly secure laser engraving of polycarbonate holder page. Scalable number of lasers for maximum speed
- > High Definition Drop-on-Demand (HD DOD) colour printing on paper or PC holder page with UV curing inks
- > Printing of UV reflecting elements
- > Inline security lamination at high speed
- > Simultaneous electronic personalisation of e-passports
- > Inline quality control (optical and electronic)
- > Universal personalisation software with Data Mastery as open platform
- > Production Data Management System optionally available
- > Customised configuration with high level of flexibility and standardisation

> **For more technical details:**

