



ePASSPORT PERSONALIZATION TECHNOLOGY

PRODUCT OVERVIEW



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MÜHLBAUER GROUP AT A GLANCE

MÜHLBAUER’S BUSINESS UNITS AND SITES

Founded in 1981 in the heart of Bavaria, the Mühlbauer Group has ever since grown to a leading global player in the fields of Parts & Systems, Semiconductor Related Products, Document Solutions & Equipment for Security Systems, and innovative Technologies for Electromobility and Flexible Solar Solutions. With around 4,000 employees, technology centers in Germany, Malaysia, Slovakia, the U.S. and Serbia, and 35 sales and service locations worldwide, Mühlbauer created a strong competence network around the globe.

Our global corporation continuously invests in the most modern innovations and creative ideas in order to enhance our competences and to provide you with optimized solutions. We aim to protect the environment with our advanced technologies and make life easier for countless people.

Our in-house precision part production **MPS** – Muehlbauer Parts & Systems – guarantees unlimited flexibility and highest customer satisfaction.

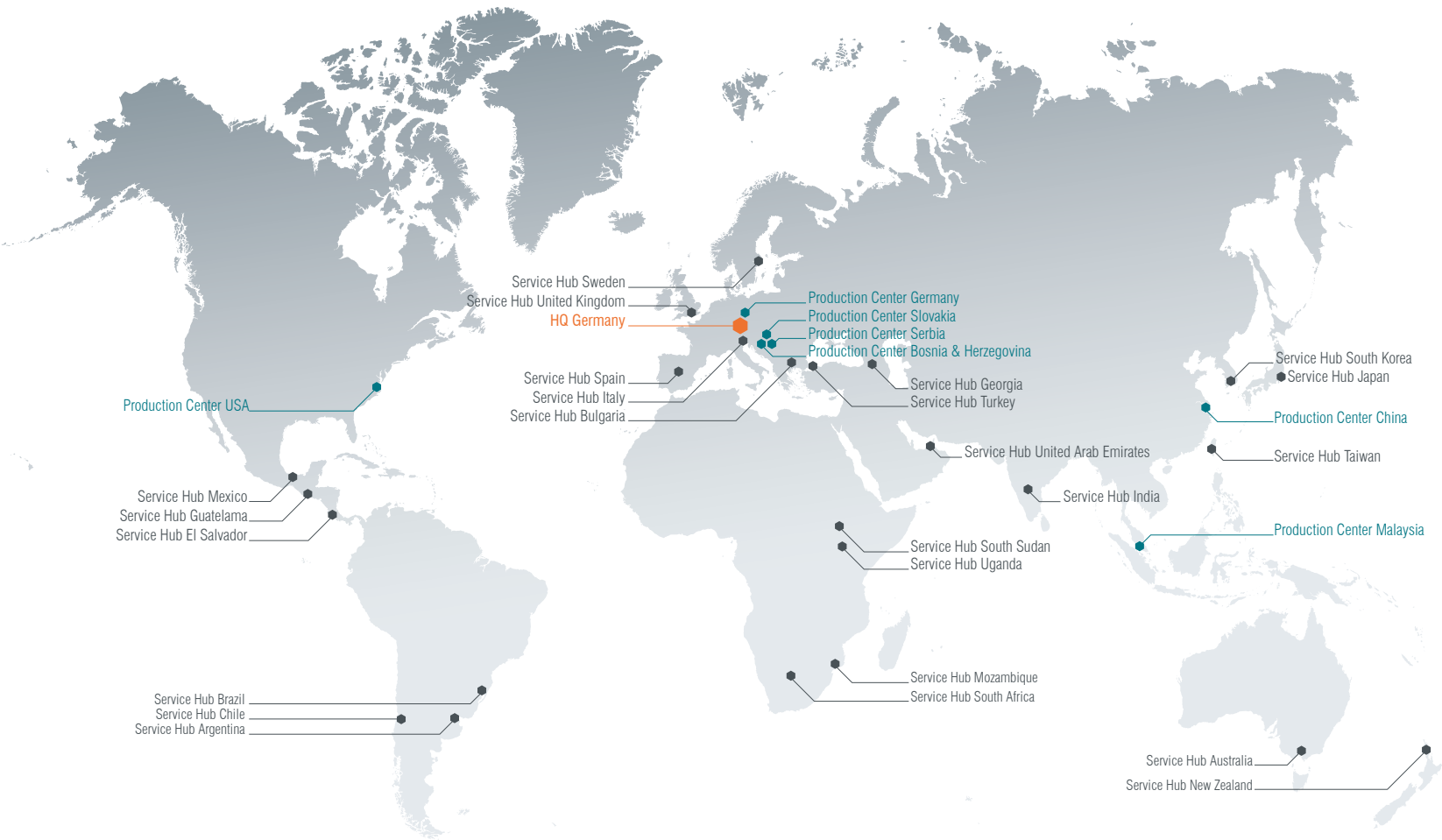
Our business unit **AUTOMATION** does not only develop and assemble individually customized production systems, but also offers intelligent software solutions for production automation

(Industry 4.0). Vision inspection technologies as well as semi-conductor and RFID applications complete our comprehensive portfolio.

Our youngest and currently most dynamic division **ATECH** – **Advanced Energy Technologies** – brings unique machinery requirements to series production. For the eMobility industry, we have been offering highly efficient production lines for the manufacture of pouch- and prismatic cells for lithium-ion batteries, as well as MEA's & stacks for fuel cells since 2022. Another promising area in this business field is our expertise in precise reel to reel material handling, which enables us to provide innovative production concepts for flexible solar cells and panels.

Our business unit **TECURITY®** is established as a competent partner for the implementation of security systems for identifying and verifying both documents and individuals. Our clients benefit from more than three decades experiential value which we have gained during the realization of over 300 ID projects worldwide.

There is no “can’t do” at Muehlbauer. We tailor your solution!





Mühlbauer
Bosnia & Herzegovina



Mühlbauer
China



Mühlbauer
Germany



Mühlbauer
Malaysia



Mühlbauer
Serbia



Mühlbauer
Slovakia



Mühlbauer
USA



MPS
Precision Parts & Surface Engineering



AUTOMATION
Production Equipment & Systems



MB ATECH
Battery & Fuel Cell Technologies



WORLD OF TECURITY®
Government & Technology Solutions



MANUFACTURING EXECUTION SYSTEMS

MB MCES PERSONALIZATION MANAGEMENT SYSTEM

MB MCES is a personalization management software, which integrates incoming data with product definitions and controls the associated physical and electrical personalization processes. MB MCES handles personalization data from a variety of different input methods and formats.

MB INCAPE PRODUCTION MANAGEMENT SOFTWARE

MB INCAPE is Mühlbauer's Production Management Software for the production and personalization of electronic cards and documents (e.g. ID cards, ePassports, Driver's Licenses, EMV or GSM cards). Combining data management, production control and material management, the system allows for highly automated processes. It processes customer- and application-specific production, personalization, quality control and document delivery scenarios with highest solution flexibility.

MB PALAMAX® TOTAL PROCESS TRANSPARENCY

MB PALAMAX®, Mühlbauer's Smart Factory solution, supports various applications from ID and document production over personalization to semiconductor backend and eMobility shop floors. It helps to monitor production data and makes it available for later processing, visualization and statistical analysis. This helps to uncover and realize efficiency boosts in your production system

MB TOOL LEADER CONNECTOR BETWEEN SYSTEMS

MB TOOL LEADER is a software package which consists of several applications and serves as a reliable link between the individual systems involved in the production process. By means of MB TOOL LEADER, the entire process chain – from the incoming order to the final precision part – can easily be monitored and controlled. This real-time machine monitoring guarantees an automated production process. Production errors can be detected and solved at an early stage. Thus, MB TOOL LEADER reduces the machine downtimes, which in turn leads to an increase of the machine's productivity by up to 20 percent.

FEATURES & ADVANTAGES



Configurable workflow steps regarding personalization, quality assurance & issuance



Seamless connection to MB PALAMAX® & MB DATA PREPARATION



Fully-automated processing & production management



Simplified administration due to web-based operator clients



Scalability regarding different documents, machines & personalization locations



Monitoring of real-time performance of the production



Flawless integration of Mühlbauer's material management system (MB INCAPE WAREHOUSE)



Seamless tracking of documents from point of production to issuance



Connection to card / document management systems via web service, database, file-based interface



Statistical tool analyze collected data & deliver customized statistics on OEE



Standard interface to personalization machines with integration of third-party machines possible



Tool which enables the remote operation of machines on the shop floor from a control centre



Integration of MB USER MANAGEMENT



Tool which increases effectiveness & efficiency so that production becomes more profitable



Full coverage of production control requirements (security industry & EMV standards)



Enables production engineering to prepare & test a repeatable factory set-up. Factories can switch between products within minutes.



IDENTIFIER 6 AM

DESKTOP PASSPORT PERSONALIZATION SYSTEM

IDENTIFIER 6 AM is a stand-alone desktop solution for the laser and/or inkjet personalization of paper and polycarbonate documents (ID cards and/or passports). The system is equipped with state-of-the-art personalization technologies in terms of inkjet printing, chip coding, laser engraving with CLI/MLI capabilities, as well as with a 100% vision inspection.

The opened passport booklet is manually fed into a unique shuttle system of the machine. The optional integrated camera system can be used for booklet identification as well for quality assurance tasks. After personalization, the passport is returned to the shuttle system, ready for the operator to take out.



KEY MODULES

- Booklet input /output
- Contactless chip encoding
- Laser engraving with MLI
- Alignment vision
- Vision alignment / verification
- Inkjet printing
- Vision inspection / QA

FEATURES & ADVANTAGES

KEY FEATURES

- Compact desktop passport and ID-card personalization system with additional adapter system
- Manual front-loading / front-receiving by unique MB shuttle system
- Color inkjet personalization technology for paper pages
- Same printer core as in IDENTIFIER 60 NOVUS & IDENTIFIER 6000 for forensically identical results
- Grayscale laser personalization technology
- Camera system for optical personalization alignment in X- Y- and phi direction
- State of the art contactless chip encoding
- Inside optical data and chip verification
- Powerful integrated data preparation
- MB MES ready

PRODUCTIVITY & PROCESS UNITS

- Special MB shuttle system for
- DOD Multipass colors inkjet personalization technology for paper pages and MB ALFRESCO®
» with fully pigmented inks
- Laser system with integrated capable fume filter system
- Vision system with MB unique setup possibilities
- Alignment vision for correct MRZ personalization according edges as well for caption recognition
- Verification of optical & electrical personalization data
- Inline contactless combined chip encoding and reading system
- Environmental conditions:
» Room temperature: 23°C; +/-3°C
» Humidity: 50%; +/-10%

TECHNICAL DATA

- Passport types & formats: ID-3 MRTDs; ePassports according to ICAO 9303
- Card in ID 1 format according ISO/IEC 7810 85,60 mm × 53,98 mm + 0,76
- Resolution inkjet personalization: min. 600 dpi
- Resolution laser engraving from 400 to 1200 dpi
- Interface: TCP/IP
- Supplied protocols according contactless ISO 14443 / 15693
- Throughput: up to 40 passports per hour; depending on process & chip coding time



INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING



IDENTIFIER 6 AML

DESKTOP PASSPORT PERSONALIZATION SYSTEM

IDENTIFIER 6 AML is a stand-alone desktop solution for the laser and/or inkjet personalization of paper and polycarbonate documents in ID1- or ID3-format. The system is equipped with state-of-the-art personalization technologies in terms of inkjet printing, chip coding, laser engraving, as well as with a vision inspection. Moreover, this system is capable of personalizing secure documents with the revolutionary color

picture technology – MB ALFRESCO® PLC. For this reason, IDENTIFIER 6 AML takes over the entire personalization process of polycarbonate- or paper-based data pages of ePassports or polycarbonate documents in ID1-format. Thus, the production of high-secure documents is guaranteed with forensically identical qualities.



FEATURES & ADVANTAGES

KEY FEATURES

- Compact desktop personalization system
- Suitable for customized personalization requirements
- New generation of color picture technology (MB ALFRESCO® PLC)
- MB MCES (including MB Product Designer)
- Ready for MB MES, MB INCAPE & MB PALAMAX®

PRODUCTIVITY / PROCESS UNITS

- Input & output shuttle
- Chip coding (contactless)
- Color picture technology with inkjet printing, laser engraving and “Liquid Coating”
- Gray-scale laser-engraving system for CLI/MLI (optional)
- Vision control systems with LED-flashlight as serial number reading, alignment and verification (optional) system
- Operator identification by means of biometric verification (optional)
- MB MCES offline development workstation (SDK) (optional), identical for ID1, ID3 and low and high volume equipment

TECHNICAL DATA

- formats to be processed
 - » ID1 for ID cards, driver licenses etc. made of polycarbonate
 - » ID3 for passports with paper or polycarbonate data page
- Contactless: ISO 14443 / 15693
- Interface: TCP/IP
- Throughput: up to 60 passports per hour (depending on personalization processes)
- Environmental conditions:
 - » Room temperature: 23°C; +/-3°C
 - » Humidity: 50%; +/-10%

KEY MODULES



Input & output shuttle



Laser engraving



Vision inspection / Verification



Chip encoding unit (contactless)



Inkjet colorprint



Liquid Coating



Normal Light



Liquid Coating under UV Light

UPH

10 20 30 40 50 60

INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING

IDENTIFIER 60 NOVUS

DESKTOP PASSPORT PERSONALIZATION SYSTEM

The IDENTIFIER 6 NOVUS is a semi-automatic system for the personalization of the latest generation of ID cards and/or passports. Fully equipped it are processed inkjet, laser contactless chip encoding technologies as well suitable for MB ALFRESCO® technology. The opened passport booklet is manually fed into a unique shuttle

system of the machine. The optional integrated camera system can be used for booklet identification as well for quality assurance tasks. After personalization the passport is returned to the shuttle system, ready to take out by the operator.



KEY MODULES

- Booklet input (input slot or input magazine)
- Inkjet printing
- Page turning
- Contactless chip encoding
- Alignment vision
- Security foil lamination
- Laser engraving with MLI

FEATURES & ADVANTAGES

KEY FEATURES

- Modular office passport personalization system - even upgradeable on site
- Compact industrial design
- Manual or automatic passport feeding
- Color inkjet personalization technology for paper pages inclusive protection by inline lamination
- MB ALFRESCO® with Liquid coating technology for polycarbonate data pages
- Same printer core as in IDENTIFIER 6 AM & IDENTIFIER 6000 for forensically identical results
- Grayscale laser personalization technology
- Camera system for optical personalization alignment in X- Y- and phi direction
- State of the art contactless chip encoding
- Inside optical data and chip verification
- Powerful integrated data preparation
- MB MES ready

PRODUCTIVITY & PROCESS UNITS

- Manual or automatic passport feeding with magazine system for 30 opened passports
- DOD Multipass colors inkjet personalization technology for paper pages and MB Alfresco®
 - » with fully pigmented inks
- DOD Liquid Coating for MB ALFRESCO® technology
- Inline contactless chip reading and encoding system
- Powerful lamination system from reel to reel
- Laser system with integrated capable fume filter system
- Vision system with LED flashlight illumination inclusive MB unique setup
- Alignment vision for correct MRZ personalization according edges as well for caption recognition
- Verification of optical & electrical personalization data
- Environmental conditions:
 - » Room temperature: 23°C; +/-3°C
 - » Humidity: 50%; +/-10%

TECHNICAL DATA

- Passport types & formats: ID-3 MRTDs; ePassports according to ICAO 9303
- Resolution inkjet personalization: min. 600 dpi
- Resolution laser engraving from 400 to 1200 dpi
- Interface: TCP/IP
- Supplied protocols according contactless ISO 14443 / 15693
- Throughput: up to 100 passports per hour; depending on process & chip coding time



INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING



IDENTIFIER 6000

PASSPORT PERSONALIZATION SYSTEM

Mühlbauer's IDENTIFIER 6000 is a breakthrough in the development of high-class solutions for state-of-the-art passport / ePassport personalization in ID-3 format (other formats available upon request). The IDENTIFIER 6000 is designed to meet highest industrial demands with regard to modularity, integration of parallel process modules, as well as latest electronics and software technology. The machine covers all passport personalization processes. Its ergonomic design and intuitive graphical user

interface (GUI) provide a user-friendly experience. Thus, it reduces the operator fatigue and, at the same time, maximizes the degree of productivity. Due to its highly flexible design, Mühlbauer's IDENTIFIER 6000 can easily be configured for individual customer and project demands. The fact that the machine can be adapted to changing requirements (even on site) again proves its high versatility and reliability.



KEY MODULES

- | | | |
|--|---|---|
|  Booklet input (stacker or magazine) |  Security foil lamination |  Labeling module with printing |
|  Booklet opening |  Laser perforation |  In-line reject module |
|  Alignment vision / verification |  Laser engraving |  Branding module |
|  Contactless chip encoding |  Booklet opening / page turning module |  Sorting module |
|  Numbering station (Impact Print) with MB unique character matrix |  Quality assurance & data verification |  Booklet output (tray or magazine) |
|  Inkjet printing |  Booklet closing | |

FEATURES & ADVANTAGES

KEY FEATURES

- Fully automatic high-speed passport personalization system
- Highly modular industrial system design; upgradeable even on site
- Different full automatic passport feeder systems for closed booklets
- Parallel process tracks to achieve maximum speed and availability
- Full automatic passport feeding for closed passports
- Different Inkjet print technologies available for paper in mono- and multi-colour
- MB ALFRESCO® with Liquid coating technology for polycarbonate data pages
- Grayscale laser personalization technology
- Camera system for optical personalization alignment in X- Y- and phi direction
- Picture in Shadow laser personalization technology
- MB unique Impact Print for numbering
- Individual label printing with applying
- Booklet stack banding module
- Sorting Module to keep the sequence also in cases of rejects
- Multiple state of the art contactless chip encoding
- Inside optical data and chip verification
- Powerful integrated data preparation
- MB MES ready

PRODUCTIVITY & PROCESS UNITS

- Single- Double Friction Feeder for medium volume personalization
- Multimazine Feeder with automatically passport orientation correction (spine, front cover)
- DOD Multipass colors inkjet personalization technology for paper pages and MB ALFRESCO®
- DOD Singlepass mono- and multi colour personalization technology with UV cured ink
- Powerful lamination system from reel to reel
- Up to 8 parallel grey scale laser with powerful separate fume extractor
- Up to 2 parallel picture in shadow laser
- Impact Print with capacity for 64 individual multiuse characters
- Up to 24 parallel contactless chip encoding systems
- Vision system with powerful LED flashlight illumination inclusive MB unique setup
- Alignment vision for correct MRZ personalization according edges as well for caption recognition
- Verification of optical & electrical personalization data
- Verification stations with own integrated reject boxes
- Environmental conditions:
 - » Room temperature: 23°C; +/-3°C
 - » Humidity: 50%; +/-10%

TECHNICAL DATA

- Passport types & formats: ID-3 MRTDs; ePassports according to ICAO 9303
- Resolution inkjet personalization: from 360 to min. 600 dpi
- Resolution laser engraving from 400 to 1200 dpi
- Resolution label printing 300 dpi
- Interface: TCP/IP
- Supplied protocols according contactless ISO 14443 / 15693
- Throughput: up to 1000 passports per hour; depending on process & chip coding time



INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING



PLS 50P

PASSPORT LAMINATION SYSTEM

Mühlbauer's PLS 50P is designed for the lamination of booklets with sewn-in laminate. The closed booklet is processed through the laminator. In combination with the IDENTIFIER 6 AM, PLS 50P

creates the optimal solution for the personalization of minimum quantities of booklets.



KEY MODULES



Passport lamination



FEATURES & ADVANTAGES

KEY FEATURES

- Compact desktop passport lamination system
- Easy to operate & maintain
- Closed booklets with sewn-in laminate or laminate in sheet format inserted by hands

PRODUCTIVITY & PROCESS UNITS

- Manual passport feeding
- Adjustable lamination temperature & speed
- Environmental conditions:
 - » Room temperature: 23°C; +/-3°C
 - » Humidity: 50%; +/-10%

TECHNICAL DATA

- Passport types & formats: ID-3 MRPs; ePassports according to ICAO 9303
- Foils: max. size: ID-3 format
- Throughput: up to 60 passports per hour; depending on process parameters

ENHANCED SETUP FOR PLS 50P

- Lamination speed: 1 - 12 mm per s
- Lamination temperature: 40 - 160 °C
- Passport thickness: 3 - 5 mm

UPH

10 20 30 40 50 60

INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING

IDENTIFIER 6 LAM

DESKTOP PASSPORT LAMINATION SYSTEM

Mühlbauer's IDENTIFIER 6 LAM is a semi-automatic solution for the lamination of secure overlay films to passports. Overlay films are processed on reel-to-reel basis. To ensure an accurate overlay positioning, the system uses printed registration marks on the overlay film.



FEATURES & ADVANTAGES

KEY FEATURES

- Compact desktop passport lamination system
- Reel-to-reel overlay foil processing
- Manual passport feeding
- Same lamination system as in IDENTIFIER 60 NOVUS & IDENTIFIER 6000 series for forensically identical results

PRODUCTIVITY & PROCESS UNITS

- Manual passport feeding
- Processing of secure overlay laminates based on reel-to-reel
- Alignment of laminate by print mark registration
- Programmable lamination parameters (temperature & speed)
- Environmental conditions:
 - » Room temperature: 23°C; +/-3°C
 - » Humidity: 50%; +/-10%

TECHNICAL DATA

- Passport types & formats: ID-3 MRPs; ePassports according to ICAO 9303
- Lamination speed: 1 - 30 mm / s
- Lamination temperature: 40 - 200 °C
- Foils on reels: max. width: 88 mm
- Foils on reels: max. diameter: 160 mm
- Throughput: up to 100 passports per hour; depending on process parameters

KEY MODULES



Manual booklet input / output



Security foil lamination
(reel-to-reel for patches or endless laminate)



INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING



ID MAIL 1500

ID CARD & PASSPORT MAILING SYSTEM

Mühlbauer's ID MAIL 1500 is a high-speed passport mailing system with modular design, which is easily configurable for all market demands in the security industry. ID MAIL addresses the growing demand in the passport industry and enables a direct mailing of the passport to the citizen. All necessary functionalities for the high-secure processing are integrated in this mailing

system, e.g. flexible matching features, attachment of enclosures and advertisements, as well as output quality control by optical, mechanical or electrical means. The fact that the ID MAIL 1500 can easily be adapted to changing requirements (even on site) proves its high versatility and reliability.



KEY MODULES

- | | | |
|--|---|---------------------|
| Carrier printer | Passport input & verification (barcode reader, vision inspection) | Envelope inspection |
| Carrier buffer, sheet separation & alignment | Passport-on-carrier verification (sensoric system or vision inspection) | Check weigher |
| Barcode reader 1D, 2D for online carrier-matching | Turning stations | Output conveyor |
| Passport affixing on carrier sheet | Enclosure stations | Job separation |
| Carrier pre- & post-folding | Reject bin | Envelope sorting |
| Carrier sheet collecting | Envelope inserting, humidification & closing | |
| Input & verification (option for stand-alone version: chip readers, vision inspection) | Address label application | |

FEATURES & ADVANTAGES

KEY FEATURES

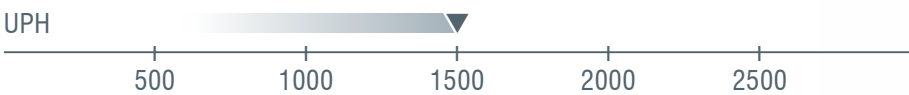
- Fully automatic, industrial designed, high-speed passport mailing system
- Highly modular system design - upgradeable even on site
- Matching of letter & passport by document's optical and / or electronical identification
- Automatic feeding of enclosures & attachments
- Output sorting system – modularly extendable
- Online support
- MB MES ready

PRODUCTIVITY & PROCESS UNITS

- Automatic passport feeding from passport buffers
- In-line letter printer
- Matching by RFID and / or optical document identification
- Up to 4 enclosure feeding units
- Support of various letter & envelope formats
- Check-weigher unit
- Security locks on all module doors
- Electrical and / or optical output quality control
- Environmental conditions:
 - » Room temperature: 23°C; +/-3°C
 - » Humidity: 50%; +/-10%

TECHNICAL DATA

- Passport types & formats: ID-3 MRPs; ePassports according to ICAO 9303
- Card dimension: ID-1 format according to ISO/IEC 7810
- Letter formats: A4; US Letter; others on request
- Envelope formats: C5; others on request
- Folding types: C- / Z- V
- Throughput: up to 1,500 ID documents per hour; depending on process



INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING



QUALITY ASSURANCE

TESTING EQUIPMENT ACCORDING TO ICAO 9303 REQUIREMENTS



Further equipment for quality tests available on request or after consulting.

PRODUCT PORTFOLIO

YOUR ONE-STOP-SHOP TECHNOLOGY PARTNER

AUTOMATION

CARDS & ePASSPORTS

- IC Module Production
- Card Body & Smart Card Production
- Holderpage & Booklet Production
- Card & ePassport Personalization
- Packaging & Mailing

RFID / SMART LABEL

- Antenna Production & Inlay Assembly
- Converting
- Personalization

SEMICONDUCTOR BACKEND

- IC Module Production
- Carrier Tape Production
- Die Sorting

INDUSTRIAL INSPECTION SYSTEMS

- Packaging
- Metal Working
- Special Solutions

FUTURE TECHNOLOGIES

- Concentrator Solar Technology
- Flexible Solar Cell Technology
- Solar Panel Technology
- E-SIM PERSONALIZATION
- LED Technology
- eMobility

TECURITY®

- ID Card Solution
- ePassport Solution
- MB IDVERSO® Border Management Solution
- Driver's License & Vehicle Registration Solution
- Production Facilities

PARTS & SYSTEMS

- Precision Parts
- Surface Engineering

CONSULTING

- Identification of Customer Requirements
- Planning & Design
- Implementation
- Ongoing Operations

SERVICE

- Worldwide Locations for Service & Support
- Worldwide Spare Parts Supply
- Reaction Time & Full Service Contracts
- Service & Maintenance Management
- Updates & Upgrades
- Teleservice, Remote Access & Hotline (24 hours)
- Training & Support on Different Levels
- Production & Administration Support

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