



# 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 Solution Related Products and TECURITY® Solutions. With around 3,500 employees, technology centers in Germany, Malaysia, Slovakia, the U.S.A. and Serbia and 35 sales and service locations worldwide, Mühlbauer created a strong competence network around the globe.

We continuously invest in the latest technologies and innovative processes to enhance our competences and provide you with optimized solutions. Our in-house precision part production MPS – Mühlbauer 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 provides matching software solutions for the production process of Document and Solution Related Products. Vision inspection technologies as well as semiconductor and RFID applications complete our comprehensive portfolio.

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.



Mühlbauer  
Bosnia & Herzegovina



Mühlbauer  
China



Mühlbauer  
Germany



Mühlbauer  
Malaysia



Mühlbauer  
Serbia



Mühlbauer  
Slovakia



Mühlbauer  
USA



**MPS**  
Precision Parts & Surface Engineering



**AUTOMATION**  
Production Equipment & Systems



**WORLD OF TECURITY®**  
Government & Technology Solutions



# MANUFACTURING EXECUTION SYSTEMS

## **MB MCES** PERSONALIZATION MANAGEMENT

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** INTEGRATED 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, is developed for card, tag or booklet productions, personalization factories and semiconductor backend shop floors to set and collect process data to monitor and improve the efficiency of production and personalization for later processing, visualization and statistical analysis.

## **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
-  Fully-automated processing & production management
-  Scalability regarding different documents, machines & personalization locations
-  Flawless integration of Mühlbauer's material management system (MB INCAPE WAREHOUSE)
-  Connection to card / document management systems via web service, database, file-based interface
-  Standard interface to personalization machines with integration of third-party machines possible
-  Integration of MB USER MANAGEMENT
-  Full coverage of production control requirements (security industry & EMV standards)
-  Seamless connection to MB PALAMAX® & MB DATA PREPARATION
-  Simplified administration due to web-based operator clients
-  Monitoring of real-time performance of the production
-  Seamless tracking of documents from point of production to issuance
-  Statistical tool analyze collected data & deliver customized statistics on OEE
-  Tool which enables the remote operation of machines on the shop floor from a control centre
-  Tool which increases effectiveness & efficiency so that production becomes more profitable
-  Enables production engineering to prepare & test a repeatable factory set-up. Factories can switch between products within minutes.



# IDENTIFIER 6 INK

## DESKTOP PASSPORT PERSONALIZATION SYSTEM

The IDENTIFIER 6 INK is a semi-automatic system for the personalization of the latest generation of passports. It is processed by inkjet technology. The passport booklet is manually fed into the machine. The machine aligns the booklet (optionally) and personalizes it by using inkjet technology. To enable a full per-

sonalization of the passport, several options like RFID, serial number detection and alignment vision are available. After personalization, the passport is returned to the operator through the front slot of the system.



### KEY MODULES



Booklet input / output  
(single-slot, front-in / front-out)



Number detection



Inkjet printing  
(pigmented ink)



Contactless chip encoding  
(external)



Security foil lamination  
(external)

## FEATURES & ADVANTAGES

### KEY FEATURES

- Compact desktop passport personalization system
- Front-loading / front-receiving
- Fully pigmented ink
- Passport thickness: 24, 32, 48 pages - others available on request
- Same printer core as in IDENTIFIER 60 & IDENTIFIER 6000 for forensically identical results
- Online support
- MB MCES / MB INCAPE ready

### PRODUCTIVITY & PROCESS UNITS

- Manual passport input
- External RFID / chip personalization system (optional)
- Vision system for optical print alignment (optional)
- 4 color inkjet printing technology
- Printing of holder page & observation page opposite
- Environmental conditions:
  - » Room temperature: 23°C; +/-5°C
  - » Humidity: 50%; +/-10%

### TECHNICAL DATA

- Passport types & formats: ID-3 MRPs; ePassports according to ICAO 9303
- Print resolution: up to 1200 dpi
- Interface: TCP / IP protocol, optional USB
- IC module types: Contactless: ISO 14443 / 15693
- Throughput: up to 80 passports per hour; depending on process & chip coding time
- Printing text format: OCR-B fonts MRZ - others on request
- Picture format: able to print & use format BMP, GIF, JPEG, PNG or TIFF - others on request

INKJET SYSTEMS

LASER SYSTEMS

LAMINATION

MAILING



# IDENTIFIER 60 Novus









## DESKTOP PASSPORT PERSONALIZATION SYSTEM

Mühlbauer's IDENTIFIER 60 Novus is a modular desktop system for the personalization of passports of the latest generation. It is processed either by inkjet technology or by laser engraving or a combination of both. The passbook is fed into the input slot or an input magazine of the machine system. The modular system allows for

the combination of all necessary modules to fulfill a complete personalization of the booklet. Inkjet and / or laser systems, lamination modules and optical / electrical verification can be integrated in the system. The system can be enhanced with magazine input and output stackers.



### KEY MODULES

- |   |  |  |
|---|--|--|
|  Booklet input<br>(input slot or input magazine) |  Inkjet printing<br>(pigmented ink) |  Booklet output<br>(output slot or output stacker) |
|  Contactless chip encoding                       |  Security foil lamination           |  Page turning                                      |
|  Laser engraving                                 |  Vision inspection / QA             |  |

## FEATURES & ADVANTAGES

### KEY FEATURES

- Modular office passport personalization system - even upgradeable on site
- Industrial design
- Manual or automatic passport feeding
- Color inkjet personalization technology available
- Laser personalization technology available
- Same printer core as in IDENTIFIER 6 & IDENTIFIER 6000 for forensically identical results
- In-line lamination module available
- Inside verification available
- Online support
- MB MCES / MB INCAPE ready

### PRODUCTIVITY & PROCESS UNITS

- Manual or automatic passport feeding
- Passport magazine for up to 30 passports (optional)
- In-line RFID / chip coding system
- Color inkjet printing system for paper-based holderpages
- Fully pigmented ink
- Laser system available for PC-based data pages
- Vision system for precise print alignment
- Optical inspection systems for input / output verification
- Data matching between optical & electronical personalization
- In-line lamination system for security overlay (optional)
- Environmental conditions:
  - » Room temperature: 23°C; +/-3°C
  - » Humidity: 50%; +/-10%

### TECHNICAL DATA

- Passport types & formats: ID-3 MRPs; ePassports according to ICAO 9303
- Print resolution inkjet: 1200 dpi
- Print resolution laser: up to 1,200 dpi
- Interface: TCP/IP
- IC Module types: Contactless: ISO 14443 / 15693
- Throughput: up to 120 passports per hour; depending on process & chip coding time

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# IDENTIFIER 60 PLUS










## PASSPORT PERSONALIZATION SYSTEM

Mühlbauer's IDENTIFIER 60 Plus is a modular system for the personalization of passports of the latest generation. It is processed either by inkjet technology or by laser engraving or combinations of both. The passbook is fed into the input slot or an input magazine of the machine system. The modular system allows for the combination of all neces-

sary modules to fulfill a complete personalization of the booklet. Inkjet and / or laser systems, lamination modules and optical / electrical verification can be integrated in the system. The system can be enhanced with magazine input and output stacker.



### KEY MODULES

- |  |   |   |
|--|---|---|
|  Booklet input<br>(input slot, input magazine, input stacker for closed booklets) |  Security foil lamination                          |  Page turning                            |
|  Contactless chip encoding<br>(single or parallel)                                |  Vision inspection / QA                            |  Alignment vision                        |
|  Inkjet printing<br>(different solutions available)                               |  Booklet output<br>(for opened or closed booklets) |  Laser engraving<br>(single or parallel) |

## FEATURES & ADVANTAGES

### KEY FEATURES

- Modular office passport personalization system - even upgradeable on site
- Industrial design
- Manual or automatic passport feeding
- Color inkjet personalization technology available
- Laser personalization technology available
- Same printer core as in IDENTIFIER 6 & IDENTIFIER 6000 for forensically identical results
- In-line lamination module available
- Inside verification available
- Online support
- MB MCES / MB INCAPE ready

### PRODUCTIVITY & PROCESS UNITS

- Manual or automatic passport feeding
- Passport magazine for up to 30 passports (optional)
- In-line RFID / chip coding system
- Color inkjet printing system for paper based holderpages; full pigmented ink
- Laser system available for PC-based data pages
- Vision system for precise print alignment
- Optical inspection systems for input / output verification
- Data matching between optical & electronical personalization
- In-line lamination system for security overlay (optional)
- Environmental conditions:
  - » Room temperature: 23°C; +/-3°C
  - » Humidity: 50%; +/-10%

### TECHNICAL DATA

- Passport types & formats: ID-3 MRPs; ePassports according to ICAO 9303
- Print resolution inkjet: depending on printer system from 360 dpi to 1200 dpi
- Print resolution laser: up to 1,200 dpi
- Interface: TCP/IP
- IC Module types: Contactless: ISO 14443 / 15693
- Throughput: up to 120 passports per hour; depending on process & chip coding time



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# 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

- |   |  |   |
|---|--|---|
|  Multi booklet input (stacker or magazine)                     |  Inkjet printing (impact printing possible) |  Booklet closing             |
|  Booklet opening   |  Security foil lamination                   |  Labeling module             |
|  Passport identification module (e.g. serial number detection) |  Laser perforation                          |  In-line reject module       |
|  Cleaning module   |  Laser engraving                            |  Packaging module            |
|  Contactless chip encoding                                     |  Page turning modules                       |  Sorting module              |
|  Numbering station (optionally with unique matrix unit)        |  Quality assurance & data verification      |  Multi booklet output (tray) |

## FEATURES & ADVANTAGES

### KEY FEATURES

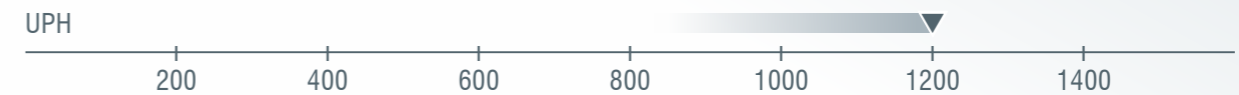
- Fully automatic high-speed passport personalization system
- Highly modular system design - upgradeable even on site
- Parallel process tracks to achieve max. speed & availability
- Multiple RFID / chip coding stations
- Inkjet and / or laser printing technologies
- In-line lamination unit for security overlays
- Optical inspection systems for input / output verification
- Data matching between optical & electronical personalization
- In-line lamination system for security-overlay available (optional)
- Same printer core as in ID 6 & ID 60 for forensically identical results
- Online support
- MB MCES / MB INCAPE / MB PALAMAX® ready

### PRODUCTIVITY & PROCESS UNITS


- Automatic passport feeding & stacking from / to passport buffers
- Capacity: up to 1,200 booklets
- Automatic page turning units
- Up to 12 RFID / chip coding units in parallel
- Up to 8 laser engraving systems
- Up to 8 parallel inkjet printing & lamination units
- High-speed DoD printing technology with UV curing ink available
- Vision system for input quality control & precise print alignment
- Electrical and / or optical output quality control
- In-line lamination system for security overlay (optional)
- Environmental conditions:
  - » Room temperature: 23°C; +/-3°C
  - » Humidity: 50%; +/-10%

### TECHNICAL DATA

- Passport types & formats: ID-3 MRPs; ePassports according to ICAO 9303
- Print resolution inkjet: depending on printer system from 360 dpi to 1200 dpi
- Print resolution laser: up to 1,200 dpi
- Interface: TCP / IP
- IC Module types: Contactless: ISO 14443 / 15693
- Throughput: up to 1,200 passports per hour



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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, 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

### 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 - 200 °C
- Passport thickness: 3 - 5 mm

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# 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 over-

lay positioning, the system uses printed registration marks or holographic print marks on the overlay film.



## KEY MODULES



Manual booklet input / output



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

## 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 & IDENTIFIER 6000 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
- Holographic print mark registration (optional)
- 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 120 passports per hour; depending on process parameters

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# SPLS 100


## ROLL-OFF LAMINATION SYSTEM

Mühlbauer's SPLS 100 is a semi-automatic system for the lamination of secure overlay films to passports. The system is especially suitable for the processing of overlay films with extended process parameter requirements. To ensure an accurate overlay positioning, the system uses printed registration marks or holographic print marks on the overlay film.



## KEY MODULES

 Manual booklet input  
(input slot front-in/front-out)

 Lamination unit  
(reel-to-reel for patches or endless laminate)

## FEATURES & ADVANTAGES

### KEY FEATURES

- High-speed desktop passport lamination system
- Reel-to-reel overlay foil processing
- Suitable for special process parameter requirements
- Suitable for overlay film & overlay patches
- Manual passport feeding

### PRODUCTIVITY & PROCESS UNITS

- Manual passport feeding
- Processing of secure overlay laminates based on reel-to-reel
- Alignment of laminate by print mark registration
- Holographic print mark registration (optional)
- Programmable lamination parameters (temperature & speed)
- Adjustable lamination force
- 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 - 220 °C
- Foils on reels: max. width: 88 mm
- Foils on reels: max. diameter: 120 mm
- Throughput: up to 200 passports per hour; depending on process parameters

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LAMINATION 

MAILING 



# PASSMAIL 1500




















## PASSPORT MAILING SYSTEM

Mühlbauer's PASSMAIL 1500 is a high-speed passport mailing system with modular design, which is easily configurable for all market demands in the security industry. PASSMAIL 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 Passmail 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 MCES / MB INCAPE ready

### PRODUCTIVITY & PROCESS UNITS

- Automatic passport feeding from passport buffers
- Capacity of up to 1,200 booklets
- 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 (optional)
- 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
- Letter formats: A4; US Letter
- Envelope formats: C5
- Folding types: C- / Z- V
- Throughput: up to 1,500 passports per hour; depending on process



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# QUALITY ASSURANCE

TESTING EQUIPMENT ACCORDING TO ICAO 9303 REQUIREMENTS



# 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 PERSO
- LED Technology

## 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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# NOTES





### MÜHLBAUER GERMANY

Mühlbauer Group Headquarters  
Josef-Mühlbauer-Platz 1, 93426 Roding, Germany  
Phone: +49 9461 952 0, Fax: +49 9461 952 1101  
info@muehlbauer.de, www.muehlbauer.de

### MÜHLBAUER USA

Mühlbauer Inc.  
226 Pickett's Line  
Newport News, VA 23603-1366, USA  
Phone: +1 757 947 2820, Fax: +1 757 947 2930  
info@muhlbauer.com, www.muhlbauer.com

### MÜHLBAUER MALAYSIA

Muehlbauer Technologies Sdn. Bhd.  
No. 3 Jalan TU 62, Taman Tasik Utama,  
75450 Melaka, Malaysia  
Phone: +60 6 2517 100, Fax: +60 6 2517 101  
info@muehlbauer.com.my, www.muehlbauer.com.my

### MÜHLBAUER SERBIA

Mühlbauer Technologies d.o.o.  
Evropska 17, 22300 Stara Pazova, Serbia  
Phone: +381 22 215 5100, Fax: +381 22 215 5130  
serbia@muehlbauer.de, www.muhlbauer.com

### MÜHLBAUER CHINA

Muehlbauer Technologies (Wuxi) Co., Ltd.  
No 23. Huayi Road, Wuxi New District  
214135 Wuxi, Jiangsu, China  
Phone: +86 510 8190 0100, Fax: +86 510 8190 0101  
info@muehlbauer.cn, www.muehlbauer.cn

### MÜHLBAUER SLOVAKIA

Muehlbauer Technologies s.r.o.  
Novozámocká 233, 94905 Nitra, Slovakia  
Phone: +421 37 6946 000, Fax: +421 37 6946 501  
info@muhlbauer.sk, www.muhlbauer.com



### MÜHLBAUER ID SERVICES GMBH

Josef-Mühlbauer-Platz 1 | 93426 Roding | Germany  
Tel.: +49 9461 952 0 | Fax: +49 9461 952 1101  
Mail: info@muehlbauer.de | Web: www.muehlbauer.de