

TRUST MADE IN GERMANY



States around the world rely on solutions by MELZER maschinenbau to produce highly secure ID documents.

For more than 60 years, MELZER maschinenbau has been manufacturing individual production solutions in Schwelm, North Rhine-Westphalia. The third generation of the family owned business focuses on solutions for RFID transponders and identity cards and enables the production of the most secure documents in the world.

An innovative family business

Client-oriented business is a strong tradition for MELZER: in the seventies, the company became one of the leaders in application-specific solutions for parking ticket and label printing. In the eighties, the equipment was expanded with modules for plastic card production. From plastic card production it was only a small step to solutions for RFID cards, which became more prevalent in the nineties. At German trade fair Drupa 2000, MELZER presented their first smart label machine. Since then, smart labels and other RFID solutions have become an integral part of the company's modular solutions portfolio.



Inline embossing

Pre-selection optimises production processes

In 2000, MELZER developed a pioneering solution for RFID chip pre-selection. Chips are separated and

tested individually, allowing the rejection of faulty units. This automatic selection process is patented, creating a USP that saves customers money, Dirk Melzer explains: "Our clients' feedback shows us how important pre-selection is. They demand high production quality. Chips are steadily becoming more reliable, but the fault rates are not yet low enough to produce without a preliminary control. Once processed, chips cannot be removed or replaced. If a manufacturer opts against pre-selection, they will have to throw away a certain percentage of the final product."

Customer service for the entire life cycle

MELZER offers high quality, free support and a steady availability of spare parts for the entire life cycle of the machine. "We regularly get callers who have questions concerning machines sold in the seventies. We aim to keep up this impressive quality that makes our machines function for over forty years, even in demanding industrial conditions," Dirk Melzer says. A team of 20 qualified experts from different areas, such as engineers, service technicians, software developers, electricians, and spare parts experts, helps clients with questions on every MELZER machine ever constructed. Dirk Melzer underlines: "Quality consciousness is growing in China, where price

had been the primary concern until now. 'Made in Germany' is still a strong sales argument."

Secure documents pose unique production challenges

Production of modern credentials poses unique challenges. It includes security features such as RFID transponders, DOVIDs, transparent windows, metal foil security threads, and numerous others. These features have to be integrated into the fully automated production process – reliably, in a forger-proof manner, and very precisely. "In the last ten years, the standard for secure documents has risen, and it will continue to rise," Dirk Melzer says. "Our modular platform enables clients to continue using our solution when they need to integrate a new security feature."

In addition, the high degree of automation reduces the manual labour needed in production, lowering another potential security risk. According to MELZER, the worldwide market for secure documentation is not yet saturated, leading to a steady demand for security. For reasons of professional discretion, numbers cannot be given and clients employing MELZER machines to produce highsecurity documents cannot be named. But Dirk Melzer is certain: "The most secure ID documents in the world are being produced with our machines."

www.melzergmbh.com



WHO WE ARE

Tailor-Made Solutions

For more than 60 years MELZER has been serving customers with tailor-made solutions. Design, manufacturing and assembly of machines, parts, and components is done in-house to the highest standards. Combined with the company's flexibility this enables MELZER to quickly analyse special requirements and turn them into high quality solutions. The modularly designed machines are being used to manufacture highly precise and very sophisticated multi-layer products for the pharmaceutical, automotive, telecommunication, microelectronic, public transport, printing, and many other industries. Specifically modularly designed machines for the production of plastic cards, chip cards, RFID cards and inlays, NID cards, e-passports, e-visa-stickers, and RFID labels complete MELZER's range of products.



OUR PRODUCTS AND SERVICES

Innovative Production Equipment

MELZER supplies innovative, revolutionary, and modular production equipment worldwide for the following products:

- Smart Labels, Smart Tickets, Smart Tags, Luggage Tags, Garment Tags and more with HF-, UHF- and MW frequencies. The production includes patented transponder selection.
- Cards for contactless applications
- SIM Cards, Dual Interface Cards, Bank and Credit Cards
- ID-1 Cards like Identity Cards, Driver's Licence, Resident Permit Cards, and other identification documents
- Passport holder pages
- Inlays for Cards, Passport holder pages and Passport covers

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