

## Secure mailing of PINs



Integrated solutions for optimal PIN protection

# Schreiner ProSecure and Otto Künnecke: A reliable and cost-effective combination

## **Tamper-proof PIN cover and protected handling**

Recipients of PIN mailers expect maximum security in the handling process of confidential and personal data. This demands solutions which reliably protect the PIN during printing and packaging as well as on the way to the addressee. Schreiner ProSecure and Otto Künnecke allow you to achieve absolute security for your PIN mailers. As specialists in the fields of PIN protection labels and handling of security documents, both companies have jointly developed a complete solution that meets the most stringent security standards. The PIN protection system prevents tampering as early as in the production process and ensures that the confidential information reaches the intended recipient unread. Schreiner ProSecure and Otto Künnecke: a reliable and cost-effective combination.

The PIN handling machine from Otto Künnecke puts the personal code and the PIN cover on the mailer only in the final packaging process. The PIN Safe-Label from Schreiner ProSecure prevents the code from being spied out.

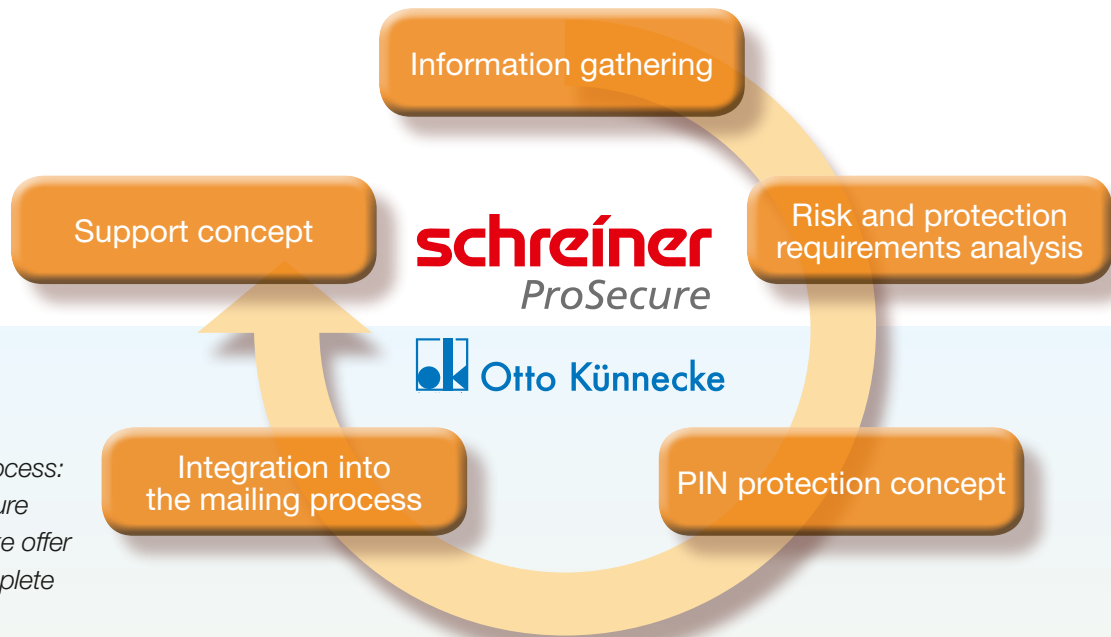
## **Customization is a matter of trust**

Schreiner ProSecure and Otto Künnecke provide you with comprehensive consultancy when it comes to implementing your PIN protection system. The proposal of a customized solution will be based on your specific security requirements and existing production processes. The comprehensive security management system meets stringent security standards, as demonstrated by DIN EN ISO 9001 and DIN EN ISO 14001 certifications. In addition, Schreiner ProSecure operates in accordance with the strict security management guidelines of the North American Security Organization (NASPO).

### **Benefits of the cooperation**

- Multi-level security system for confidential PIN mailers
- Expert consultancy for customized complete solutions
- Maximum reliability and efficiency based on coordinated machine performance and label system





*The consulting process: Schreiner ProSecure and Otto Künnecke offer a tailor-made complete package.*

**Schreiner ProSecure**

The innovative security solutions by Schreiner ProSecure – a business unit of Schreiner Group – provide efficient tamper and counterfeit protection for products and documents. More than ten years of experience in the production of intelligent, opaque PIN covers make the company a highly capable partner. The PIN protection solutions by Schreiner ProSecure deliver compelling performance thanks to the highest levels of processing reliability and security, customized design options and ease of use by the consumer.

**Otto Künnecke**

Otto Künnecke is an internationally active company that has been in existence for almost 80 years. Accordingly, the company draws on a wealth of experience. With numerous subsidiaries and a worldwide network of 50 distributors Otto Künnecke installs its machine solutions on all continents. They process driver’s licenses, ID cards, passports, PIN mailers and other security documents to the satisfaction of the company’s customers.



*Schreiner Group’s location in Oberschleissheim, north of Munich / Germany*



*View of the site of Otto Künnecke in Holzminden / Germany*

# Schreiner ProSecure: Maximum security for PIN mailers

## **PIN Safe – the intelligent PIN protection**

The PIN (personal identification number) is the most widely spread system for authentication and access control. For security reasons, the PIN is typically sent to the customer by mail, separate from the card or access data. The PIN can only protect against unauthorized access though if it cannot be spied out on its way to the intended user. This demands PIN covers that combine one-hundred-percent tamper protection with ease of use.

PIN Safe by Schreiner ProSecure seals the code in a tamper-proof manner between two security labels. First, an opaque neutral base label is attached to the mailer by means of a dispensing system. After variable printing of the PIN using inkjet or laser printers, the top label is applied on top of the PIN for immediate, reliable covering of the code.

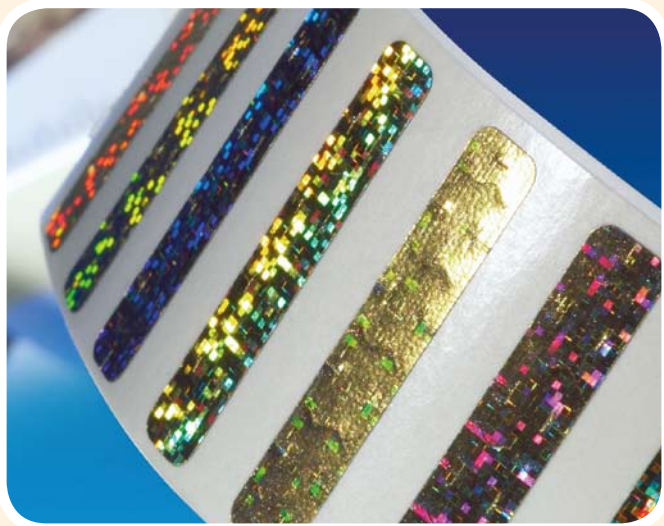


*PIN Safe offers opaque protection and customized design options.*

PIN Safe can be used on normal stationery. Extensive testing by independent test institutes like FOGRA and PIRA has confirmed that PIN Safe effectively prevents undetected spying out of the code



*Double protection: The PIN is protected between the top and the bottom label.*



*Holographic scratch fields are decorative and safe.*

even when optical, chemical or physical methods are used. The recipient of the PIN mailer can expose their code simply by rubbing the surface with a finger or coin.

#### **PIN Safe – the key benefits**

- Reliable counterfeit protection
- Customized design of void inscription
- Absolutely opaque barrier layer

#### **Flexible design options**

PIN Safe can be customized in terms of size and colors. The holographic image of the central scratch field can be created based on standard designs or according to customer-specific requirements. The colored label film has an integrated partial release effect.

This void effect only appears in case of tampering attempts and immediately indicates even to laypersons that someone has tried to peel off the top label. PIN Safe can be used as a means of advertising when combined with a multi-dimensional hologram or customized void inscription.



*PIN Void MultiColor increases tamper protection by means of a multi-colored void film.*

# Otto Künnecke: Flexible printing and handling systems

## Systematic PIN handling

Otto Künnecke is one of the world's leading manufacturers of machine solutions for personalization, sorting and mailing of security documents such as passports, cards, PINs and visas.

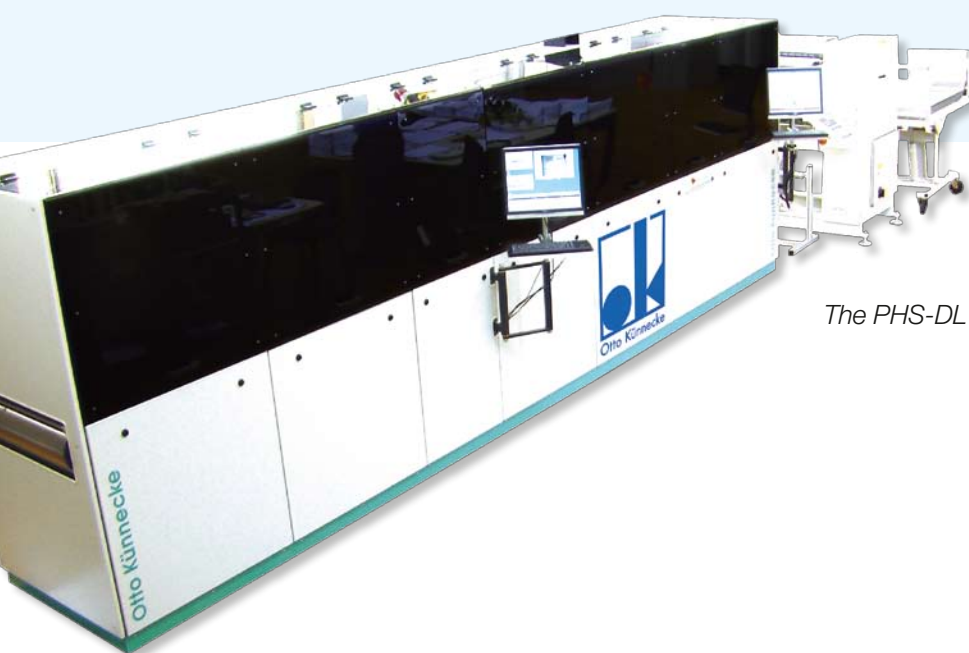
The PIN handling machines meet specific security standards. In addition to maximum process reliability, the machine concepts prevent operator access to security-relevant data. The machines are delivered with opaque covers that have security locks and password protection. Sensors and video cameras monitor the product flow through the machines and check the positioning accuracy and flatness of the labels as well as the quality of the print. The additional use of ink jet printers to print the PINs can increase the security standard even further. As these inks contain no ferrous materials they cannot be made visible



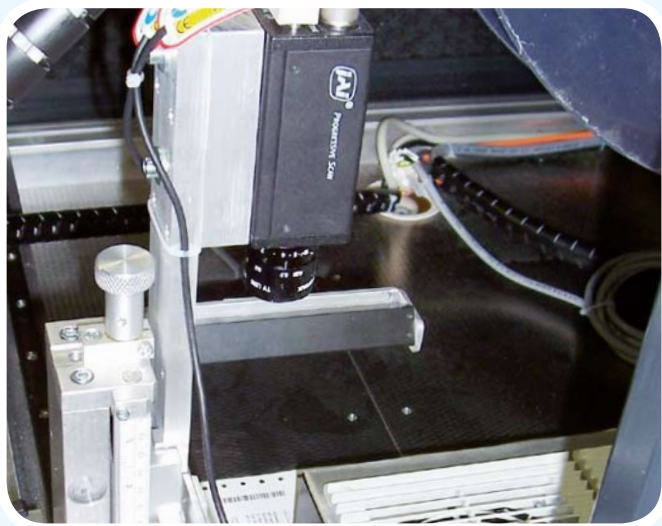
*Ink jet systems are used for secure printing of PINs.*

by means of magnetization.

The video system uses special software to recognize the number sequence without showing the numbers in human-readable form. This is an additional security



*The PHS-DL PIN Handling System with double label*



*Camera system for print quality inspections*

feature that prevents illegal attempts to spy out the PIN during the production run. The systems can be equipped with special encryption techniques which only allow the PIN data to be decoded inside the

### **Otto Künnecke – the key benefits**

- Customized solutions
- Long-standing experience
- Integrated security concept
- Modular structure and industrial design

machine. The TÜV/IT-tested software and security architecture ensures maximum process reliability. The PIN handling systems can be operated using either continuous paper forms or single sheets.

The PIN mailers are automatically inserted into envelopes by connecting a folding unit and insertion machine to the system. Alternatively, a connected thermal or press sealer can be used to seal the carrier. The systems are available for various volume requirements and in different configurations. Customers have the choice between an online printing system and the option to feed the system offline with pre-printed mailers on which the PINs are printed using an inkjet system. The complete solution from Schreiner ProSecure and Otto Künnecke is used in the finance sector and the growing market of ID security documents such as ID cards and passports.

Your partners for more security

