



## OTHER VALUABLES

### OTHER SECURITY PRINTED ITEMS

STATE PRINTING WORKS OF SECURITIES, state enterprise (SPWS) produces most of the common types of security printed items, both in paper form and in the form of plastic cards in ID-1 format in accordance with the requirements of the international standard ICAO 9303 and EU standards. It offers a wide range of services in the area of production of other security printed items. It provides not only the processing of graphic design, print preparation, printing proper, personalisation and delivery of the product to the place of destination, but also tries to find innovative solutions to meet the utterly individual requirements and needs of customers from both commercial and non-commercial spheres.

### PROTECTION AGAINST COUNTERFEITING

To safeguard other security items against counterfeiting, copying and falsification, SPWS uses a combination of security features in material, design and printing. In order to achieve resilience or inimitability, special paper with protective fibres or chemically sensitive paper is used. Certified security inks are also used. Other security features used are guilloche patterns, iridescent printing, microtext, line copperplate printing and UV fibres, UV printing or hologram application. The design of other security printed items complies with the latest standards in the area of design, materials used and printing so that the possibility of their counterfeiting is made difficult as much as possible. In this area, SPWS belongs to the world leaders in the field.

### SECURITY FEATURES

The level and method of protection is a key element of all security printed items. The security features used are public and concealed and can be placed in the design, material or print. Usually, 3 levels of protection are used, namely:

1. security features visible to the naked eye,
2. security features detected by special technical means (UV lamp, magnifying glass),
3. elements for forensic protection, detectable by laboratory methods and means for unambiguous determination of authenticity.

SPWS suggests for each security printed item an ideal combination of used security features depending on the individual customer requirements, technical solution and price.



## SECURITY PRINTED PRODUCTS

**Motorway stickers** – stickers on the car interior windscreen contain a variety of security features in design, optically variable features, a hologram and a special strap that prevents the removal of the sticker from the car's glass without damaging it.

**Tobacco tax stamps and alcohol strip stamps** – alcoholic products with concentrations above 15 volume percent of ethanol must be secured under the law with alcohol strip stamps. For tobacco products, stamps are printed including the price of the product. In the production of both types of products, security features in design, special security paper with protective fibres, and various security printing techniques are used.

**Travel documents** – the main products are tickets, time vouchers, fare holders' cards, and the reels for fare vending machines. Protection against counterfeiting, copying and falsification of printed data is a matter of course. At present, there is a gradual transition from the paper form of travel documents to the form of plastic cards.

**Meal vouchers** – security features visible to the naked eye and elements identifiable by special detection techniques recognisable even at high speeds of automatic processing are used in the production. They can be delivered in blocks, sheets or in nominative envelopes.

**Entrance tickets** – special security paper, security features in graphics, numbering and more are in particular used to protect tickets against counterfeiting. The technical and colour design is such that it impedes making colour copies with other reproductive techniques. The security features in the paper include watermark, visible fibres and fibres with fluorescence in UV light.

**Gift vouchers** – these are security printed items with a certain monetary value that can be used to pay for services or goods. A gift voucher may be proprietary – its issuer and acquirer are the same entity (a store issues its own gift vouchers) or open – the issuer and acquirer are different and there are usually more acquirers.

**Cheques and bills of exchange** – are provided with security features in paper and print. Guilloche, iridescent transitions and micro lettering are used, in particular, to protect checks and bills of exchange against counterfeiting. The technical and colour design is such that it is difficult to make colour copies with other reproductive techniques. The security features in the paper include watermark, visible fibres and fibres with fluorescence in UV light. Their personalisation can be carried out in the production at the same time.

**Certificates, diplomas and trademarks** – for many manufacturers and customers, certificates are significant documents because they guarantee the properties and authenticity of products. The trend also is the production of a limited series of goods, for which its uniqueness helps to increase demand. They can be provided with a unique numerical series. However, certificates have a wider use. Due to a high level of representative processing, they are used, in addition to manufacturing and financial institutions, also by advertising agencies as well as by training and educational organisations. They are produced in the same way and with similar security features as securities.

## PERSONALISATION

SPWS employs high-quality optical and electronic personalisation of security printed items. Optical personalisation is used mainly for paper products and plastic cards. A separate category is electronic personalisation in which data are recorded to a contact or contactless chip.

## EASY DISTRIBUTION

SPWS provides secure distribution of produced and possibly personalised security printed items to the end customer, including automated transmission of return data to the central or private registers. Part of the distribution of the produced security printed items is a 100% recalculation and output quality control of the dispatched security printed items.



For the needs of banks, financial institutions and business entities, SPWS offers the production of such products as glued tapes for banknotes. These tapes are supplied mainly from organic paper and in one-colour design. According to the customer's request, SPWS will print on the tapes the address and logo of the appropriate entity.

SPWS also offers products other than security printed items, such as a plethora of printed matter and forms. They can be supplied as separate loose sheets (or as carbon-backed files with a detachable glued strip) or files in an endless band, suitable for further printing and electronic processing. SPWS also offers customers the personalisation of printed matter and forms on high-speed laser printers. This technology is suitable wherever addressed text processing or modification is required. Due to a direct link between the printing machine and the computer, it is possible to print alphanumeric characters, bar codes in any line, size and position, complemented with a control number according to a secret algorithm, 2D codes and QR codes. This technique allows reprinting of data for the purposes of the so-called Direct Mail Services.

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