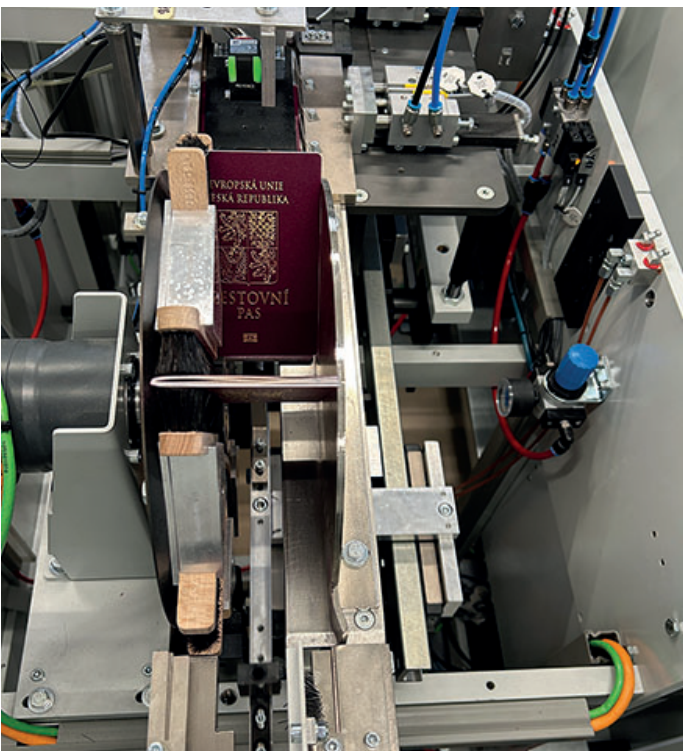


# STC

## Passport production line



## TRAVEL DOCUMENTS FROM STC: top quality, maximum security, fast delivery

STC is among the top manufacturers that have **comprehensive technology** for the production of travel documents. Being the only manufacturer on the global market, we have a state-of-the-art **4-module Kugler -Womako PassPort 1-4** passport production line, which represents the absolute cutting edge in automated passport production. This technological advantage enables us to provide our customers with unrivalled quality, speed and safety in production. Thanks to a fully integrated and highly secure system, we ensure a comprehensive process - from the processing of materials to the final personalised document - in accordance with international **ICAO 9303** standards.

With a spare production capacity of **up to 2.5 million passports** per year, STC is also able to efficiently execute large-scale and long-term projects **for clients around the world**. With this unique technology, STC is cementing its position as an innovator, leader and reliable partner in the security document production industry.

## CUTTING-EDGE TECHNOLOGY FOR MODERN PASSPORTS

The Kugler-Womako PassPort 1-4 production line is a **fully integrated solution**, which includes:

- imposition of inner pages,
- stitching,
- laminating,
- stamping,
- data personalisation,
- document numbering,
- laser marking,
- comprehensive inter-operational camera quality control.

The entire process takes place under **safe, continuous and strictly monitored conditions** meeting the highest demands of government and commercial customers.

## CAPACITY AND PERFORMANCE

- Production capacity: up to **2.5 million passports per year** (median)
- Production speed: up to **50 final passport books per minute**
- Scope: passport books of up to **64 pages**

Thanks to this capacity, we are able to respond flexibly to large and long-term orders.

## KEY FEATURES OF THE DEVICE

### Complexity

- Processing of paper, textile and polycarbonate elements
- Support for eCover and polycarbonate data pages (up to 1 mm)

### Speed

- High performance without compromising the quality
- Optimised processes for efficient batch production

### High security and control

- Camera surveillance in all key production steps
- Data transfer to database and detailed reporting
- Automatic discarding of defective layers, chips and sheets
- Full traceability of every document

## TECHNOLOGY WINDOW

### Mechanical processing

- Accurate alignment, trimming, imposition of inner pages including data page and flyleaf
- Interlock sewing with programmable stitch length and automatic bottom thread change. Including UV top thread check and checks for tension, breaks and thread ends

### Lamination

- Lamination of the outer coating with PUR Hotmelt adhesive with instant pressing
- Application of Hotmelt adhesive with UV fluorescence

## HOT STAMPING OF METALLIC FOIL:

- Controlled temperature and pressure during application of the foil on the front side
- Fixing the passport book spine
- Profile cutout (ID-3)

### Pre-personalisation and numbering

- CRN letterpress numbering
- up to 12 characters, tolerance  $\pm 0.2$  mm
- Printing of numbers or letters or a barcode
- Dye tape:
  - black, optionally with UV fluorescence
  - black with UV fluorescence + red penetration
- Camera verification and data transfer to the database

### Laser technology

- Laser perforation (possibility of different shaped perforations)
- Laser engraving of the data page

### Output and handling

- Labelling module (text + barcode) - possibility of applying a label on the back side of the cover
- Passport output in vertical position
- Alternating spine orientation for easy counting

### Software & operations

- Robust, supported operating system
- Compatibility with database systems
- Designed for long-term operation

### Why work with us?

- Certified production according to ICAO 9303
- Holders of ISO 14298 certification
- State-of-the-art Kugler-Womako technology in full configuration
- Maximum data and document protection
- High flexibility and short delivery times
- Professional approach and long-term stability

We are ready to become your reliable partner for the production of travel documents at the highest level.



# STC

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