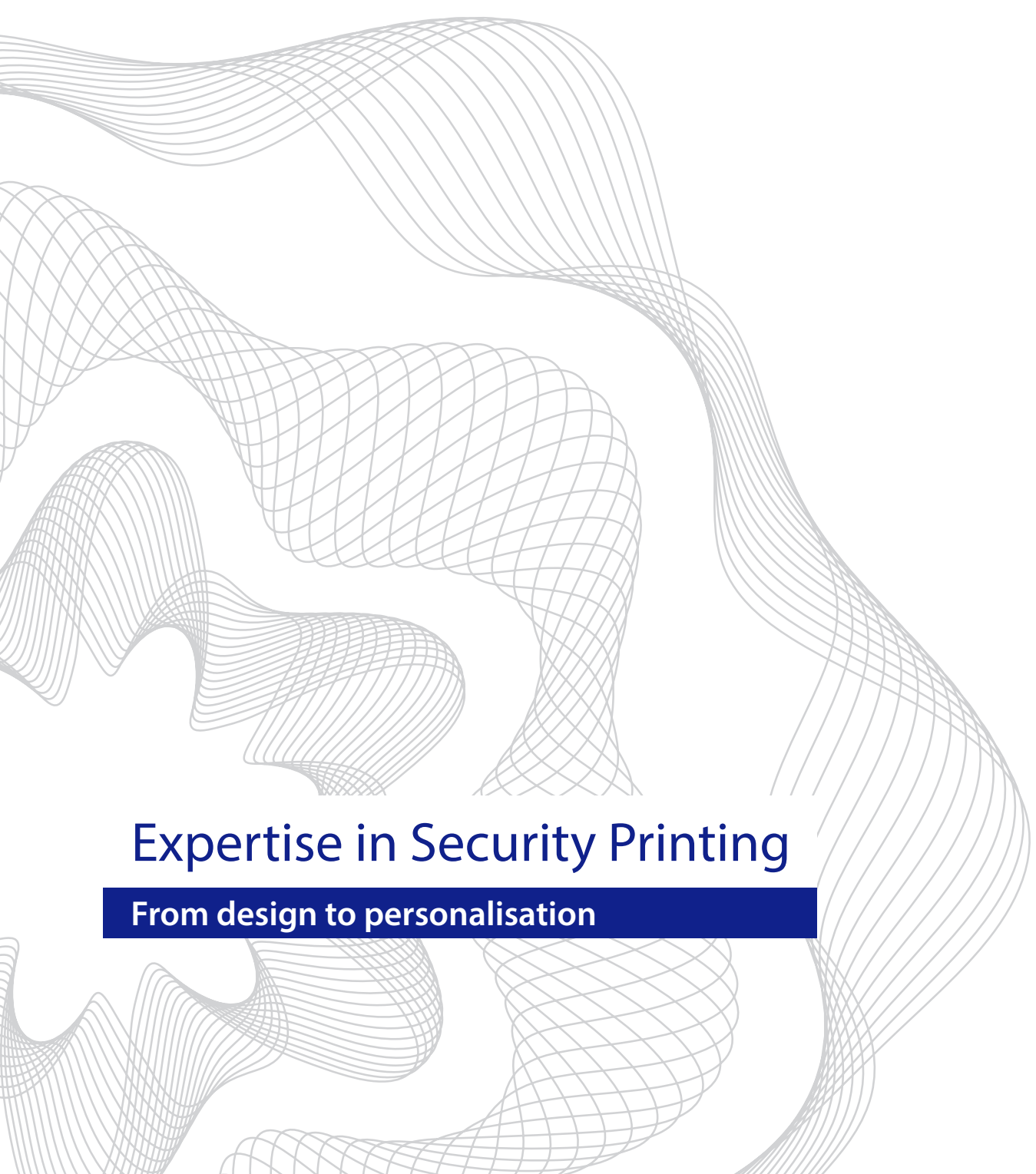
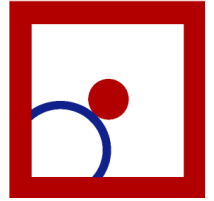


**ART-Line**



# Expertise in Security Printing

From design to personalisation

## Who we are

### And what we do

Since 1992 ART-Line has established its services in the graphic arts industry as an authentic and multitalented partner.

Our business is the trade of machines and materials for the production of high security printing products. Our supply ranges from design to quality assurance tests of such products and includes all materials.

We always aim to support our customers and their products; therefore we figure out solutions independently. Creating individual solutions together in cooperation with our customers is how we understand our business.

Our customers appreciate sophisticated acknowledgment of the broad range of technical solutions and state of the art manufacturing systems.

#### Mainly we cooperate with government organizations around the world and offer our service for:

- ePassport and eID-Card production according ICAO and ISO
- Visa sticker production
- Banknote production and finishing
- Tax and postal stamp production and traceability
- Security paper manufacturing
- Security features and design
- Personalisation and numbering equipment
- Minting
- Equipment, softwares, consumables
- Etc.



Plastic products



Paper products

# Our solutions

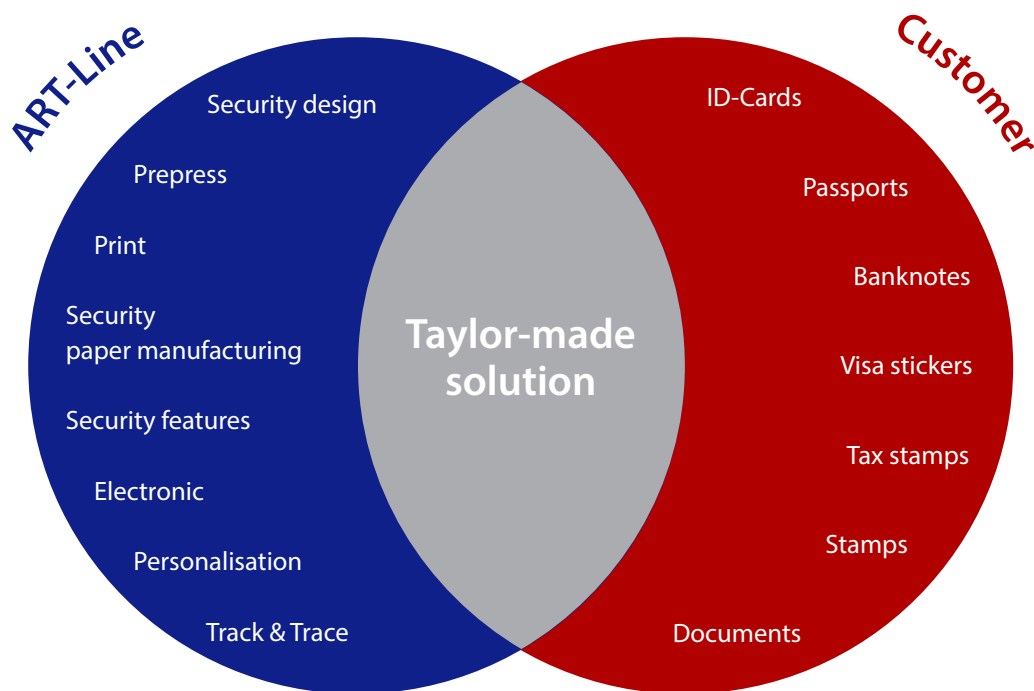
## At a glance

ART-Line is a system supplier and partner in setting up latest production technology and high-security consumables. Our know-how is based on more than 25 years of experience in the world of security printing.

Customers benefit from specialised production know-how about these extraordinary products and their specific demands. Considering the entire workflow process, from design to personalisation, we find the best fitting solution to make your products work. Technology consulting,

installation and training are always part of our service. ART-Line assists its customers installing up effective, state of the art manufacturing systems. We work independently, only bound to serve our customers' individual needs.

A large and cultivated network of manufacturers, research institutes and industry partners plus many years of experience in the printing industry are the basis for best possible results. Together we create new ideas for future developments.



- Security design
- Plate making
- Offset printing
- Intaglio printing
- Flexo printing
- Letterset printing
- Screen printing

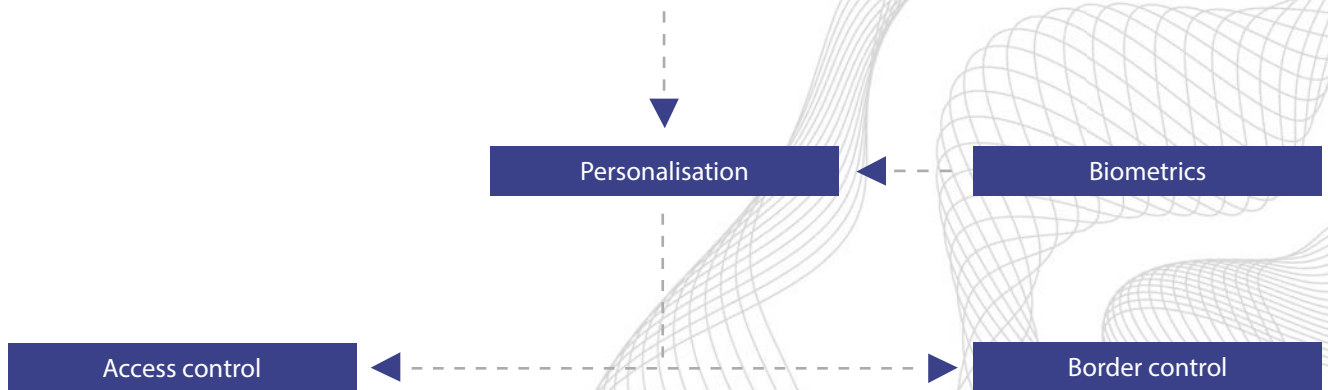
- Inline lamination
- Sheet lamination
- Inlay manufacturing
- Security features
- Hologram application
- Window technology
- Watermark

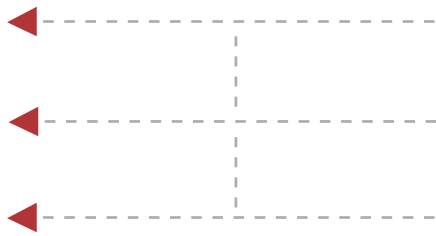
- Contactless cards
- Contact cards
- eCover solutions
- PC holder pages
- Laser personalisation
- Inkjet personalisation
- Numbering

- Perforation
- Consumables
- Security features
- Training
- Installation
- Consulting
- etc.

# Our security document world

100% customized





Substrates

Laboratory

Quality management



Banknotes



Postal stamps



Tax stamps, RFID-labels, -tickets, etc.



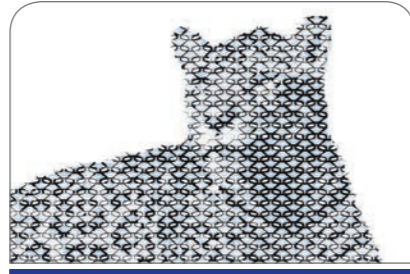
## Security design

The right solution for your product

- Advanced design for banknotes, passports, tax stamps, etc.
- Basic design for brand protection and other.



High security design



Basic security design

## Substrates

Softwares and consumables

- Security paper, synthetic substrates
- Materials for ID-card production
- Quality management in the paper mill
- Watermark manufacturing solution
- Consumables for high security document production
- Security inks as overt and covert feature
- Passport materials
- Customised solutions



Passport consumables



Cover material

## Stamp production

Numbering and Perforation

- Perforation equipment and tools
- Security perforation tools
- Solution for self-adhesive stamps
- Ink-jet personalisation for duty stamps or lottery tickets
- Track and trace
- Laser perforation



Traceable tax stamps



Perforation for security

## Laboratory

ISO and ICAO standards

- Test equipment for eCards and ePassports
- Paper quality
- Print laboratory
- Ink laboratory



Durability tests



## Prepress and print

State of the art prepress solutions

- Offset printing at adequate resolution
- Digital engraving for gravure and intaglio.
- Screen printing equipment
- Letterset and flexo printing for security application
- Digital printing application



Digital engraving

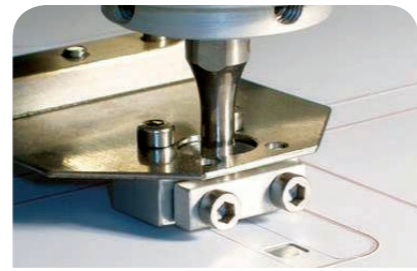


Intaglio plates

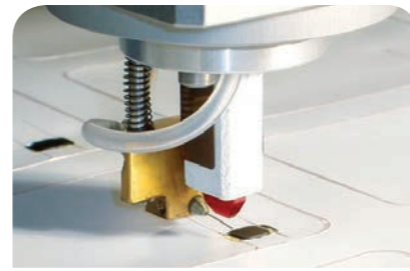
## Industrial solutions for MRTDs

ePassport, national eID, visa sticker, driver's license

- MRTD production solutions for different volumes and applications. Various ways to get electronics in.
- Electronic inlay manufacturing
- Smart, contactless or dual interface
- Holder page technology & eCover production
- Wire embedding
- Printed antenna
- Copper plated antenna



Antenna embedding



IC soldering

## Application

And Security features on all levels

- Holographic stripes or patches on different location
- Registered and non-registered application
- Hot foil stamping for passport and other documents for all production volumes
- Optically changeable and other special inks and their application
- Fluorescent fibres and threads
- Machine detectable markers
- Etc.



Holograms

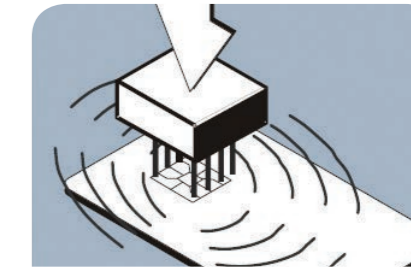


Application

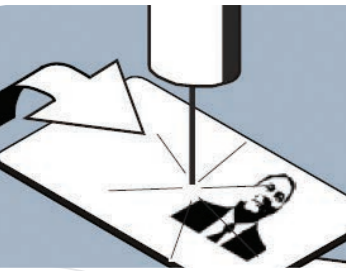
## Document personalisation

centralized and decentralized

- Passport - visa - ID-cards - tax stamps
- Laser engraving solutions
- Laser perforation equipment
- Colour ink-jet
- Chip preprogramming and encoding



Preprogramming

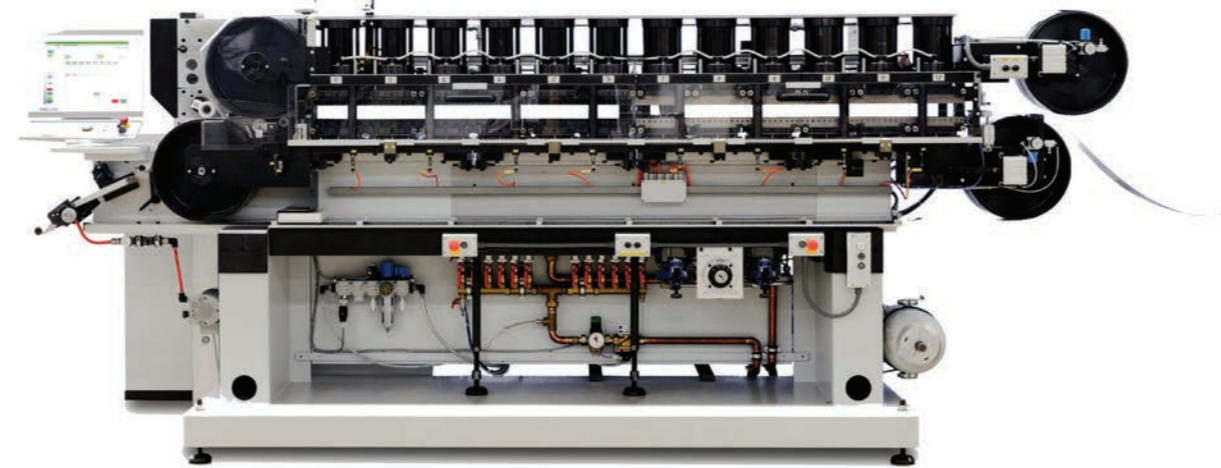
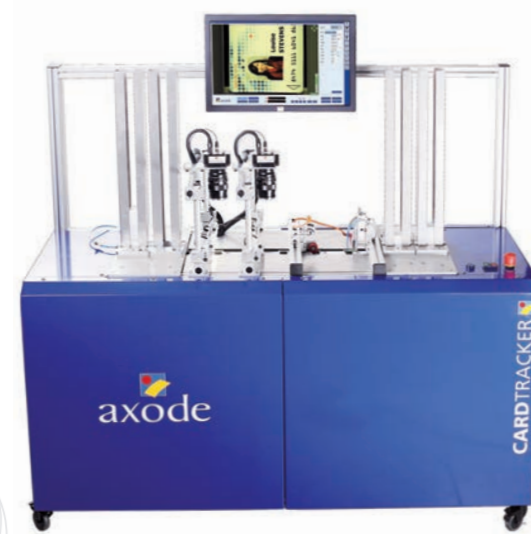


Laser engraving

## Inspection and tracing systems

For the entire production process

- Quality assurance by modern inspection systems means excellent results and considerable reduction of waste.
- Print inspection
- Watermark control
- Cards inspection
- RFID check
- Electronic track & trace system
- MES (Manufacturing execution system)



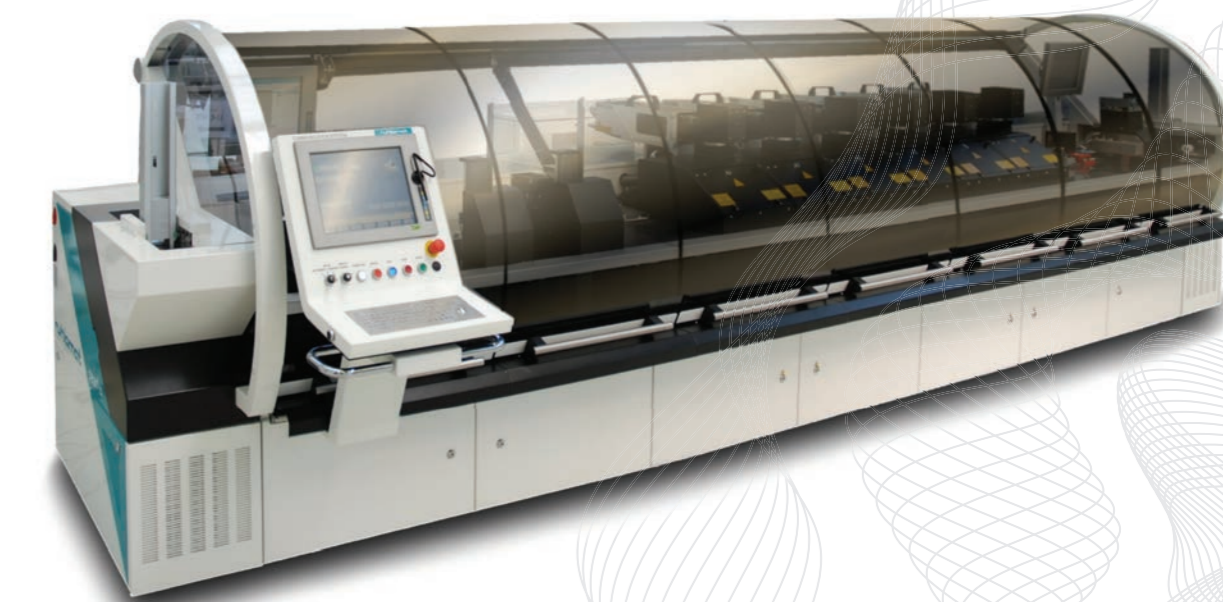
## Handling

Counting and banding

- Numbering and tracing solutions of banknotes (-sheets) and tax stamps within the production plant and beyond.



Sheet counting

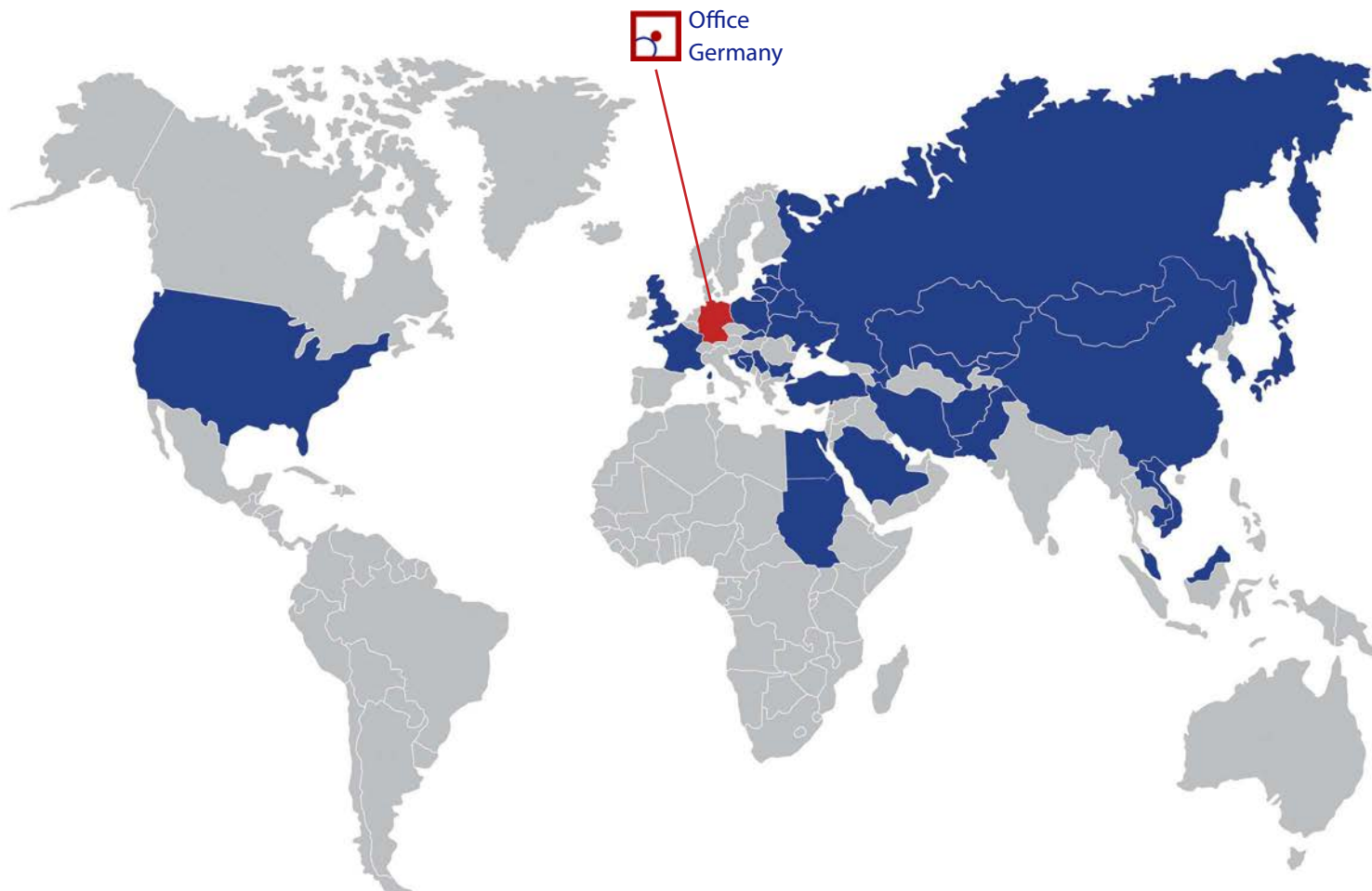


## References & customers

In more than 30 countries

Since 1992 our philosophy is to build confidence combined with the development of solutions for our worldwide customers. Our highly-qualified and ambitious employees are actually the fundament ground for our achievements and success. Correspondence languages are Russian, English, Spanish and German.

Our Company is based in Augsburg - a beautiful region of Bavaria close to Munich. Our home is the global document security world. In the beginning ART-Line has been active mainly in the CIS countries but today its activities have spread across 4 continents.

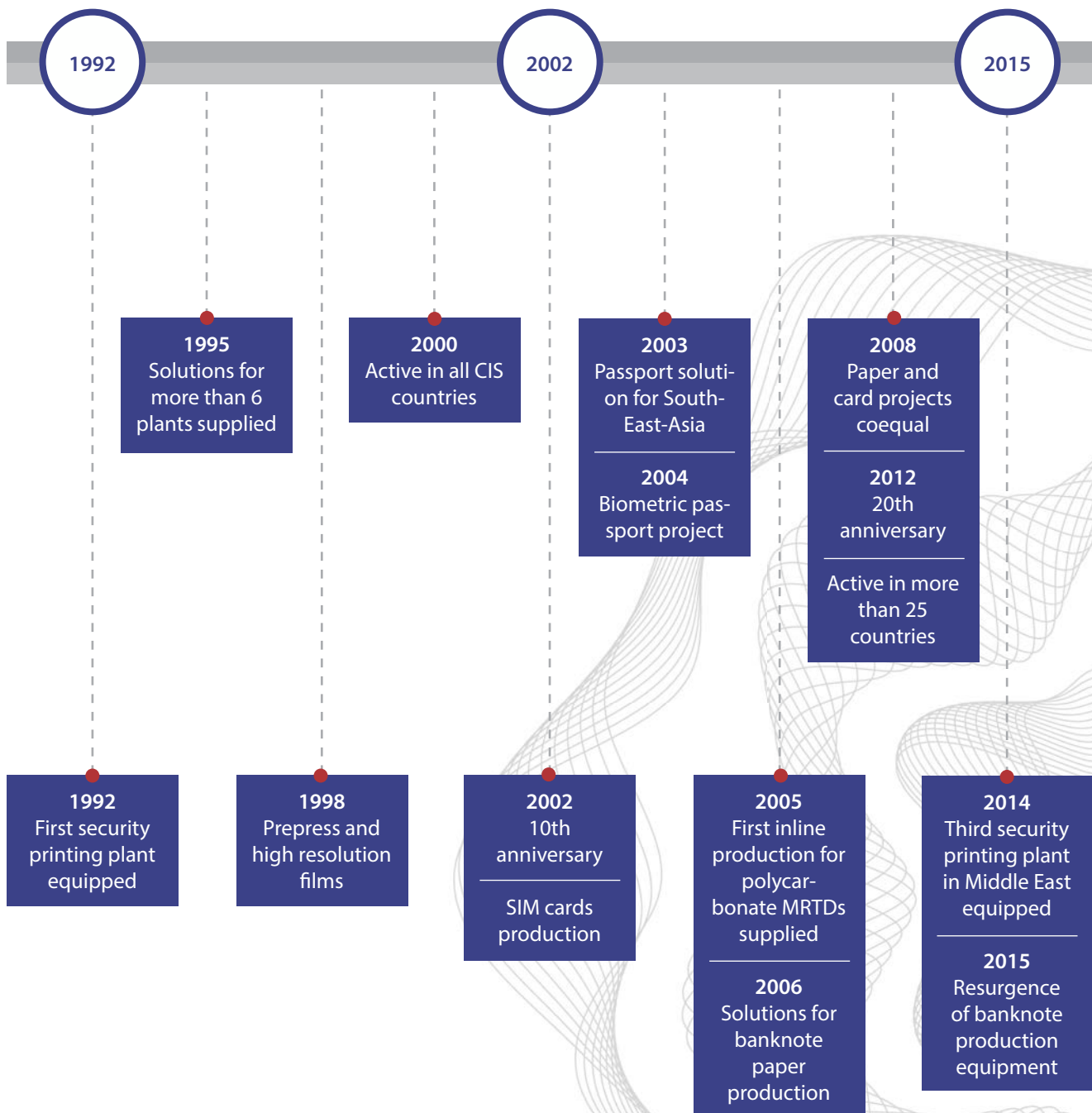


# History

## And milestones of work

ART-Line was found after the former printing press manufacturer Miller-Johannisberg, Germany, was taken over and closed. Miller-Johannisberg was very successful in the banknote and security printing sector at that time. The know-how was not lost, it was enhanced by the personnel of ART-Line through the years. We experienced

modern developments in this sector, we have been front runners in the development of modern ID documents when they became mobile data storage systems and encrypted biometrics came into the documents. State of the art production technologies and future trends is what moves us from the beginning.





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