



iai industrial systems



Are you talking
about the next step,
or are you taking it?

IAI industrial systems company profile

IAI industrial systems has been at the forefront of laser and optical systems technology for many years, providing unique and advanced systems for a broad spectrum of industrial users. As a result of this experience and our extensive knowledge, IAI has gained an excellent reputation for the design and supply of industrial production systems where laser, optics, precision mechanics and control software play key roles.

Our core expertise

- Laser and optical technology
- System integration
- Designing unique lasers

Besides lasers, we also bring expertise in inkjet printing, materials processing, precision mechanics and control software to an issue. If you can imagine it, we will find a way to help you make it happen.

Expert in collaboration

We are continuously seeking knowledge and understanding from every source we can to fuel our creativity. From customers' organisations, systems integrators and technology partners. From a broad network of universities, R&D departments, research institutes and specialists. And from our own team of knowledgeable experts.

Market solutions

Today, our experience and expertise are focused on the following major areas:

- Document Security Printing
- Laser markets
- New niche markets, such as automotive, semiconductors, solar and others

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Can your standards
be too high when it
comes to security?

IAI's solutions for the security document market

IAI designs, builds and supplies a range of personalisation systems to the security printing market. Some of the largest countries in the world have chosen IAI as their preferred partner to help them create passports, identity cards and banknotes with the most advanced security features.

Whether you work for a government agency, printing house or central bank, you strive to produce the most secure documents or banknotes possible. Coming up with effective new measures that enhance a document's design is one thing. Integrating them successfully is a different issue when it involves complex documents and production lines. IAI has years of experience doing both across the full spectrum of security documents: passports, ID cards, licences, banknotes and others. Many governments, major companies and innovative technology experts work closely with us to develop effective new security measures and systems that lock out counterfeiters in every corner of the world.

The most secure passports in the world. Some of the largest countries in the world have chosen IAI as their preferred partner to help them create passports with the most advanced security features. These include Sweden, Brazil, Switzerland, Thailand, The Netherlands, Belgium, Ireland and many others.

The most secure banknotes in the world. Switzerland's banknotes are currently considered the most secure in the world thanks in part to the patented MicroPerf technology which is highly counterfeit-proof. The Swiss National Bank is one of our valued customers who uses MicroPerf.



IAI's references in security printing



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Do you settle for a supplier, or do you select a partner?

IAI's passport personalisation solutions

IAI offers a range of BookMaster systems which personalise and secure the passport and program the biometric data into the embedded electronic chip. The BookMaster family includes fully automated systems and manually operated systems.

BookMaster systems

BookMaster systems are modular and scalable in set-up and can be adjusted to suit your project requirements. All BookMaster systems are designed for sustained high quality production in an industrial environment. The ergonomic design, the user friendly touch screen display and the ease-of-use allow the operator to control the system easily under all circumstances.

Passport features

IAI also provides a range of security features such as NumberPerf, ImagePerf and ImagePerf/TLI for enhancing the security of passports. Besides our laser perforation technology, IAI offers a range of third party features based on our advanced

laser engraving and inkjet printing technologies. These features can be applied by the BookMaster One.

BookMaster One

Complete and automatic personalisation of passports with either a polycarbonate or paper data page. The BookMaster One platform has a modular set up, allowing you to choose the required functionality and throughput (up to 500 passports per hour).

BookMaster Pro

Mid-volume personalisation of passports with a paper or polycarbonate data page. The system is fully automatic and can personalise up to 200 passports per hour.

BookMaster Desk

Low volume, manual desktop personalisation system for passports with a polycarbonate data page.



The BookMaster One



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Do you make
the deadline, or
do you master it?

IAI's card personalisation solutions

IAI offers its CardMaster systems to personalise and secure ID-1 sized cards. The CardMaster family includes a fully automated high volume system and a desktop system.

The new CardMaster One

IAI is currently redeveloping its CardMaster One system platform. The new platform will be available from summer 2015. The new CardMaster One platform will have a modular set-up and throughput will be scalable from 200 cards per hour up to 4000 cards per hour, in order to match each project's requirements. The system will be field upgradable and ready for future innovations. As always, the system is designed for intensive industrial use, user friendliness and easy and quick maintenance. The new CardMaster One system will be suitable for Government and Banking cards personalisation. It features multiple input and output hoppers, card identification, contact- and contactless chip encoding, laser engraving, ImagePerf laser

perforation, colour printing and lamination, embossing and topping and magstripe encoding and a verification of applied processes.

CardMaster Desk

Low to mid-volume personalisation of identity cards. Functionalities include laser engraving and biometric programming among others. The system is fully automatic and can personalise up to 150 cards per hour.

Further benefits

IAI is an independent equipment supplier. The systems have an open software platform; you can run your own software and no expensive licenses are needed. IAI is a well-recognized engineering company with a proven track record in passports and ID cards. Our customers will benefit from our years of experience in innovative laser based security features and system design.



The new CardMaster One