



# MicroPerf banknote security feature

To ensure that your banknotes can withstand the most aggressive counterfeiting attempts, we offer the premium-level MicroPerf security feature. The feature is based on our innovative laser perforation technologies.

## **What is MicroPerf?**

Using laser technology, tiny, oval shaped holes are perforated through the banknote. The holes can be arranged in the shape of a fixed pattern, for instance the value of the note, or a unique number, for instance the serial number.

## **Highly counterfeit-proof**

What makes laser perforations so invincible is that they cannot be copied, removed or mechanically faked.

## **Easy to verify**

In everyday situations, MicroPerf can be identified directly and unmistakably as a security feature, so it can be verified quickly and easily by the layman and by professional cash managers alike. Checking for

this security feature is comparable to checking for a watermark. No additional tools are required.

## **Robust enough for daily use**

MicroPerf is the only optical security device that loses absolutely none of its characteristics throughout the lifecycle of a banknote- even under extreme conditions. Furthermore, these characteristics can easily be checked with banknote sorting machines.

## **Easy to integrate**

The micro-perforations are not visible when looking down on a note, but is clearly visible when the note is held up against the light. This means that the feature can be integrated into an existing banknote design easily. MicroPerf can be

combined with other technologies to create a security system: substrate (paper or polymer), offset printing, intaglio printing and OVD can all be perforated.

## **Economical solution**

The feature is an economical solution for countries issuing large volumes of banknotes, as it removes rather than adds anything to the banknote. Once the perforating equipment is in place, there are no further consumables costs.

*Tilt your expectations*



iai industrial systems



iai industrial systems

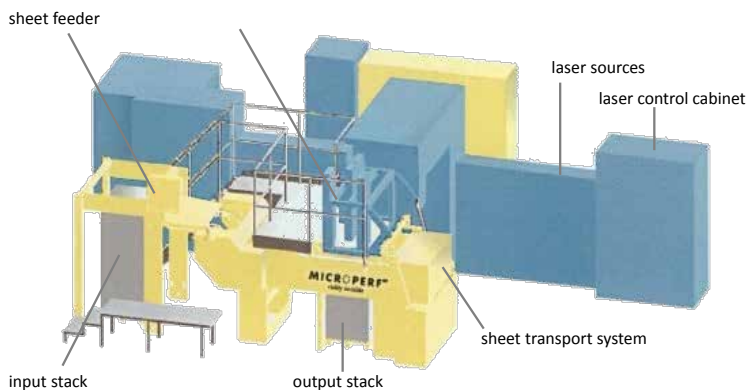
# Laser perforation - The mighty holes that shut out counterfeiters!

## Proven technology

The MicroPerf® feature is already protecting Swiss, Russian, Lithuanian and Romanian banknotes and will be applied in Chinese banknotes shortly.

## The MicroPerf system

The MicroPerf system is a fully automated, high speed system that processes sheets from stack to stack. It consist of a Laser Perforation Unit (blue part) and a Sheet Transport System (yellow part). It is 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. As the MicroPerf system meet the industrial standards in accordance with CE regulations, no special precautions nor training are required to safely operate the systems.



*Denomination pattern  
in Swiss banknotes*



*Denomination pattern  
in Russian banknotes*



*Unique serial number  
in Chinese banknotes*

## Companies behind MicroPerf

The MicroPerf security feature is a partnership between three parties: The Swiss security printer Orell Füssli owns the patent on the feature itself, IAI supplies the Laser Perforation Unit (blue part) needed to apply the actual feature into the banknotes and KBA NotaSys supplies the Sheet Transport System (yellow part) so that the banknotes can be processed.

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