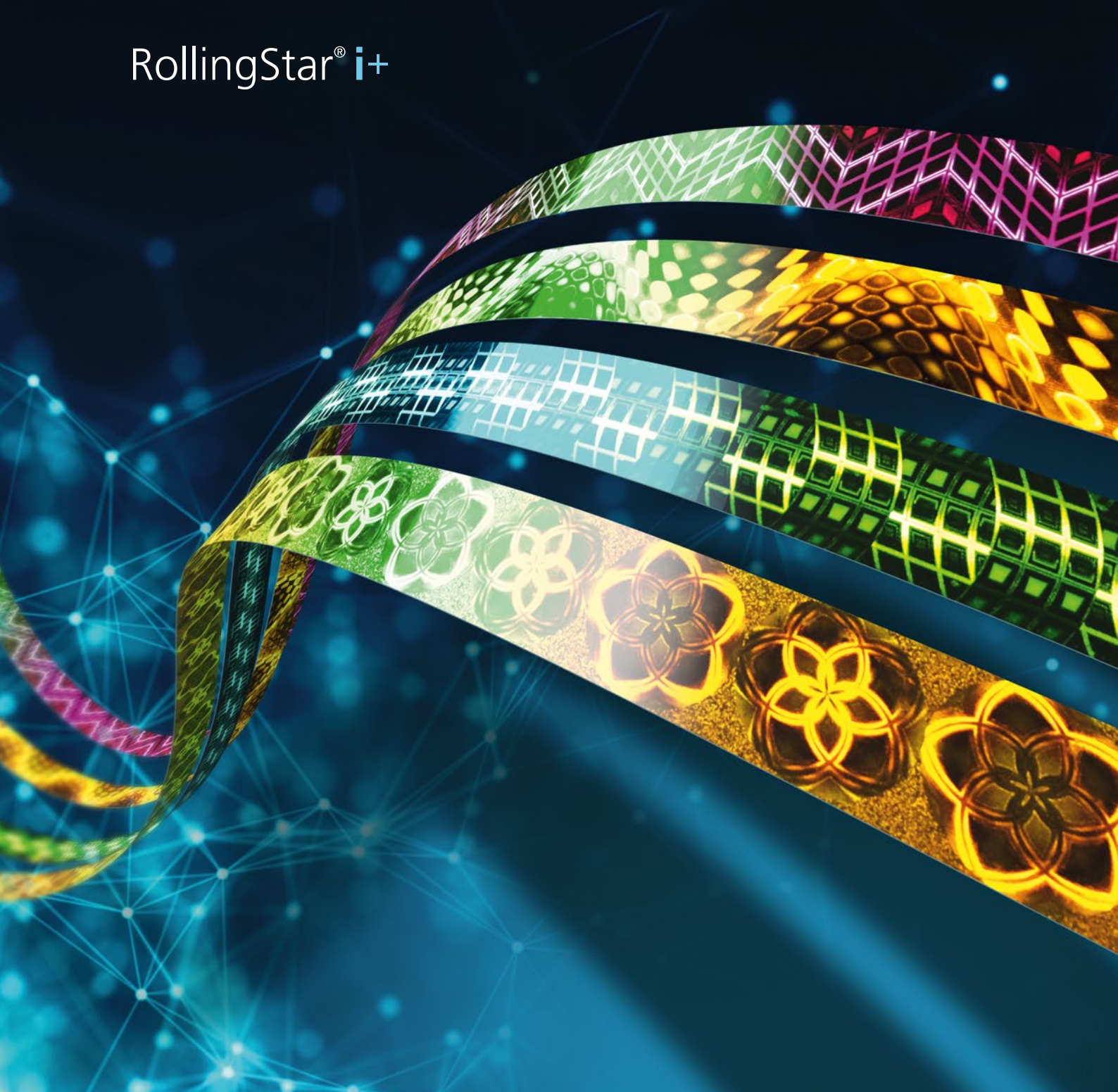


**SEE BANKNOTES IN A NEW LIGHT.
WITH UNMATCHED SECURITY FROM WITHIN.**

RollingStar® i+



Louisenthal

RollingStar® i+

A PLUS THAT REALLY ADDS VALUE.



The demands placed on banknotes are becoming increasingly stringent. They have to be extremely counterfeit-proof, easy to process and – at the same time – attractive for the user: the more the design of a banknote excites people, the more they prefer to engage with it – and the security elements it has. The attractiveness of a banknote and its security thus reinforce each other.

RollingStar® i+, our latest security thread in the RollingStar® range, offers completely new design possibilities, more dynamics, more brilliance, a clearer colour shift and new, attractive effects. And, not to forget, even more security.

In other words: a plus in impact. In addition to many new benefits, RollingStar® i+ also offers something you have known for a long time: the quality and performance you have come to expect from Louisenthal.



THE SECURITY THREAD AGAINST SECURITY THREATS.

With RollingStar® i+, after intensive research and development, we have succeeded in reaching a new level in micromirror technology for security threads. The innovative multi-facet substructure with an even more sophisticated way of aligning and shaping the micromirrors allows for an attractive and realistic look of the thread. The proven combination of dynamics, colour shift and magnetic technology takes a significant leap forward with RollingStar® i+. The striking effects of shifting colours and moving motifs immediately attract the user of the banknote and raise its security to a higher level.

The nanometre precision that characterises RollingStar® i+ ensures unique design possibilities – technology at this level presents a high burden to counterfeiters. By embedding the security thread in the banknote substrate, security is once again significantly increased – the combination of security and design on a banknote at this standard is therefore only possible with cotton-based banknotes.





THERE IS NO STORY LIKE YOUR STORY.

Every banknote is also a calling card of its country and its central bank. In addition to security, which should not be subject to compromise, design is the central element of a banknote. The more opportunities the central bank has to link the history and culture of its country with its means of payment, the better. After all, an attractively designed banknote increases the population's acceptance.

This is where RollingStar® i+ shows particular strengths: the design and individualisation options have been further expanded with new, modern motifs and patterns – so the security thread is optimally integrated into the overall design, which is particularly secure.

Two optically variable effects – dynamics and colour shift – on the same surface multiply the security, make checking for authenticity a pleasure and are a future-proof choice for long-running series as well. There is hardly a better way to tell the story of your country on a banknote.

MAKES EVEN MACHINES HAPPY.

The fact that a banknote can be checked for authenticity quickly and easily by the general public is an important factor. Another is that machines must be able to do the same. RollingStar® i+, with its integrated MultiCode® or classic machine readability, enables a seamless security concept and creates confidence in the field of automated banknote processing. The machine-readable magnetism of RollingStar® i+ is widely accepted and allows for banknote processing by machines from all sensor manufacturers. This, in combination with its proven durability during circulation, ensures more efficiency in the cash cycle.





INNOVATION WITH EXPERIENCE.

At Louisenthal, we always keep the big picture in mind with every new innovation. As a subsidiary of Giesecke+Devrient, we not only understand the individual components of a banknote, such as substrate, design and security elements, but also offer holistic banknote expertise. Our technologies and state-of-the-art security products are used in over 100 countries and are an integral part of cash cycles around the globe.

Since 1964, our 1,100 employees have been constantly working on new innovations to make banknotes even more secure, attractive and sustainable. With RollingStar® i+, we are continuing the success story of our security threads – and giving you completely new ways to adapt your banknotes to your needs. Talk to us about how together we can make your banknotes even more attractive with security.

RollingStar® i+

Outstanding optical effects with the greatest impact on design

Best visibility in low light

Increased dynamics and brilliance through micromirror and colour shift technology

Enhanced banknote design options

Innovative multi-facet substructure for an appealing and realistic look

Coded machine-readable magnetic properties for efficient processing (MultiCode®)



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RollingStar® i+