

CSD-ARCIS

THE CASH SPOILING DEVICE



This brochure details information about the CSD-ARCIS Cash Spoiling Device. For details on this product please visit www.debatin.com. If you have any comments about the product, the content in this document, or the technical composition and workings of the CSD-ARCIS, please contact Anton Debatin GmbH.

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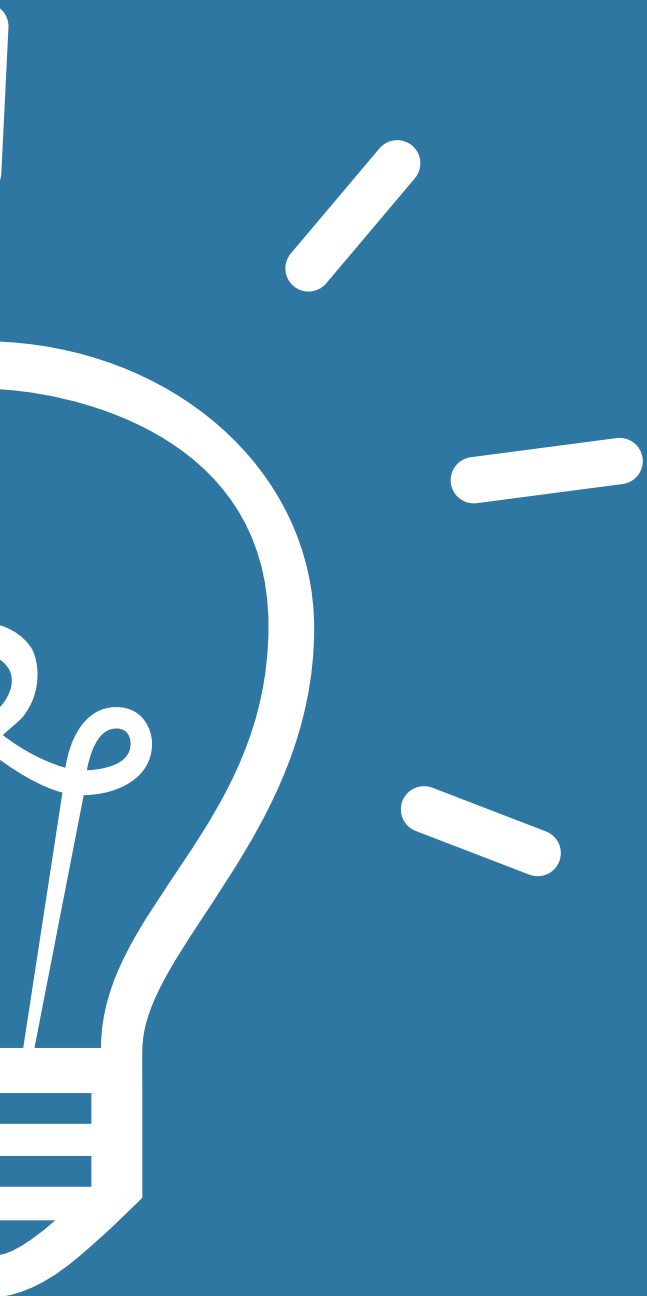
The world is moving so fast these days that the man who says it
can't be done is generally interrupted by someone doing it.



Elbert Hubbard

BANK NOTE THEFT HAS
BEEN AROUND SINCE THE
INVENTION OF THE PAPER
CURRENCY. WE THINK IT IS
TIME TO CHANGE THAT





INTRODUCTION

We believe passionately in developing a suite of security products that deliver a major blow to the criminal community. Our goal, from day one, as pen hit paper, was to invent, design and manufacture a product that could completely remove bank note theft from the minds of the criminal!

Bold statement? Absolutely! We do believe that goal is possible by launching a solution that is not only 99.99% effective, can remove the prize from the criminal, but is also made easy for Banks, Central Banks and Law Enforcement to understand and rally behind.

The CSD-ARCIS Cash Spoiling Device, a product started as an idea, sketched on a paper and then launched into full manufacturing, trial and testing, is now being deployed.

OUR MANTRA:

“Remove the prize, remove the crime”





THE INDUSTRY HAS
BEEN LOOKING FOR
THE SOLUTION
WE HAVE IT!

MARKET OVERVIEW

Much has been done in the protection of bank notes, from better, bigger, stronger cash holding devices, to heavier, more armoured CIT facilities. Yet, when these fail, Banks turn to products that spoil notes through staining or attempted destruction. These solutions fail to achieve our founding goal, how to remove the prize and prevent the crime?

The industry currently faces losses in the multi \$billion a year in bank note theft in various guises, with little evidence of it slowing. The achievable prize remains the attraction. Yet, in this tsunami of active criminality, there appears to be two main routes of protection that Banks are offered - bigger, thicker safes, or ink dye as a way of staining the notes as a recommendation from some central banks.

“Central Banks have been torn between the need to support banks, keep confidence in the currency and the requirement to remove stained notes from circulation.”

As recent as the autumn of 2014, several global central banks started to look closely at alternatives. Our development team engaged with and explored how the CSD-ARCIS device could provide a breakthrough. Now several years later and we have a product that is building the excitement that this could be ultimate deterrent. The banking world has taken notice.

WHAT IS THE CSD-ARCIS?

Designed as the ultimate in theft deterrent, the CSD-ARCIS is a revolution in bank note protection and their movement. The Cash Spoiling Device, CSD-ARCIS, has taken the industry problem on and made it our mission to move one step closer to completely eradicating bank note theft.

Built into the lid of the cash cassette, the CSD-ARCIS unit is a small electronic device which sits silently and vigilantly watching for tampering. Upon activation, the device sprays the notes with an incredibly effective fluid which is immediately absorbed into the fabric of the notes, fusing them together as a solid block. Attempts to peel off the notes or remove the hardened fluid, permanently destroys the currency.

// We have engaged with Central Banks throughout the development of the CSD-ARCIS, ensuring it not only meets their requirements now, but also for the future of the new polymer notes. //

The unique deployment method in how the fluid is sprayed across the notes, along strategically specific locations, ensures only part of the block of notes is fused, leaving the serial numbers still visible. This ensures the notes although totally useless to the criminal, can be redeemed via the Central Bank on recovery.

Key questions often asked of the CSD-ARCIS

How are the devices maintained?

We can provide several maintenance options to check the device is working correctly, to test / replace the battery and also to check/replace the bonding agent, these are typically 12-18 months after install.

Will the device work on all currencies?

Tests have been conducted on all major currencies, with the desired affects achieved.

Will the CSD-ARCIS work on the new polymer notes?

Yes, the fluid interacts with the notes in a slightly different way, but the result is still the same.

Do the bonded notes contain a Marker or Taggant?

Yes they do.

Is the bonding fluid harmful?

No, the fluid is completely inert when idle in the lid of the cassette. Even on activation when the chemical properties of the fluid change to make it bond to the notes, the classification of the fluid becomes that of an irritant only. Once cured, a process taking only a matter of minutes, the result is it becoming an inert plastic and is again non harmful.

Can the fluid be 'washed off' the notes?

No, the notes are completely fused together. The chemicals needed to remove the fluid completely destroy the notes.

Can the notes be peeled away?

No, all tests have resulted in the destruction of the note.

How successful is it at rendering the contents of the cassette worthless?

In our tests, the activations have proven to be 99.99% successful.

How is the device powered?

The device has a long life battery built into the lid of the cassette, these are checked and tested during the maintenance of the device.

Do we need to purchase new cash cassettes?

No, this device can be retro fit into the lids of your current stock of cassettes.

What type of bonding agent do we use?

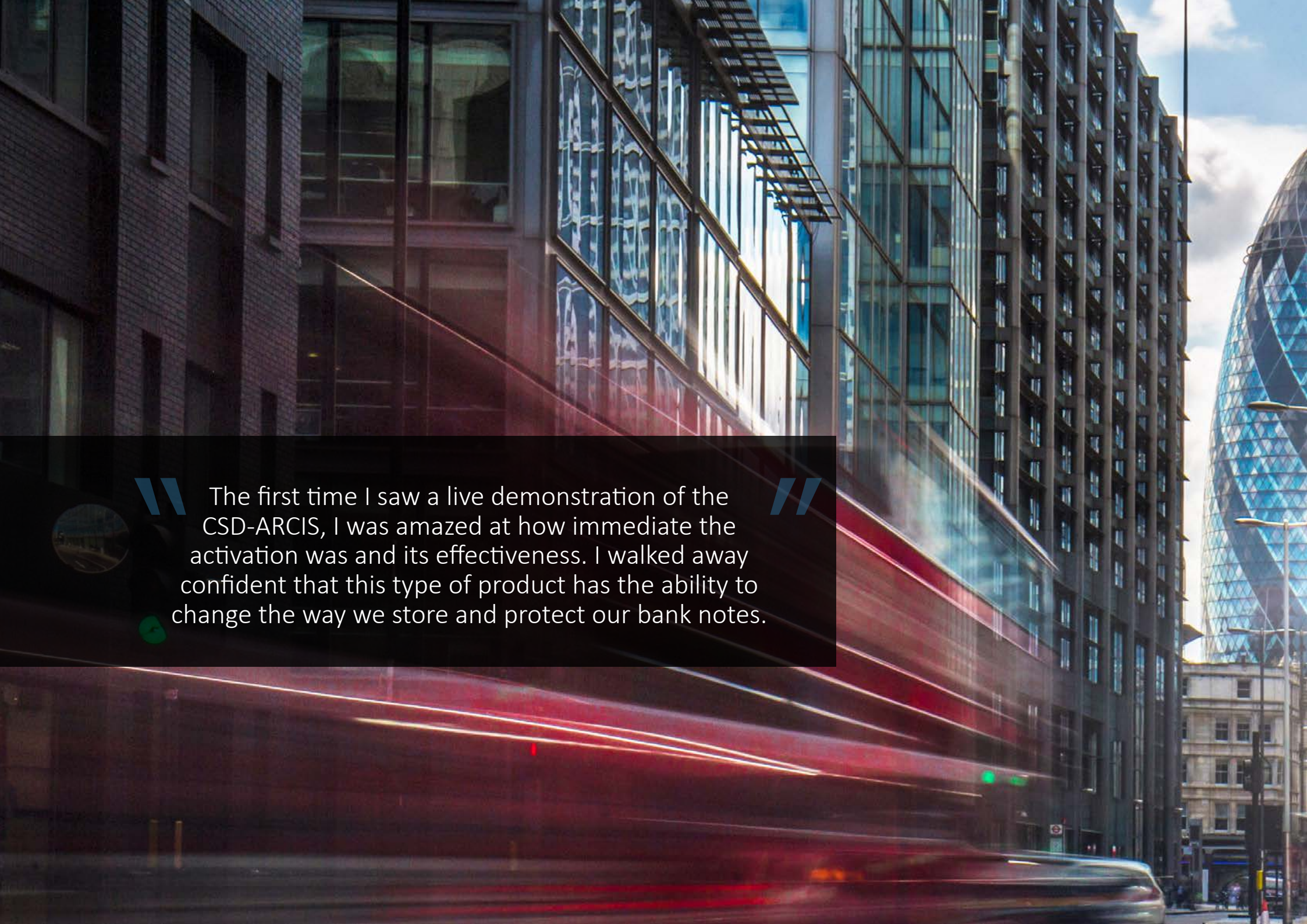
The fluid is purposely manufactured for the CSD-ARCIS and all patents on its distribution and selling is strictly controlled by our teams.

Can the notes be redeemed by the central bank?

The CSD-ARCIS is a new product and its unique patents are under review from several Central Banks. The reason we leave part of the notes free is for the purpose of redemption. Early discussions with these bodies is encouraging with several suggesting they would support the redemption of notes as long as the CSD-ARCIS meets numerous requirements - these have been explored and agreed.

There are other 'glue like' products on the market, what makes the CSD-ARCIS different?

Other glue type products simply fuse the entire contents together as one solid lump, with no strategy in its deployment. The CSD-ARCIS's unique and patented activation of the bonding fluid efficiently fuses key areas of the notes together, allowing them to be counted and authenticated whilst safe to handle.

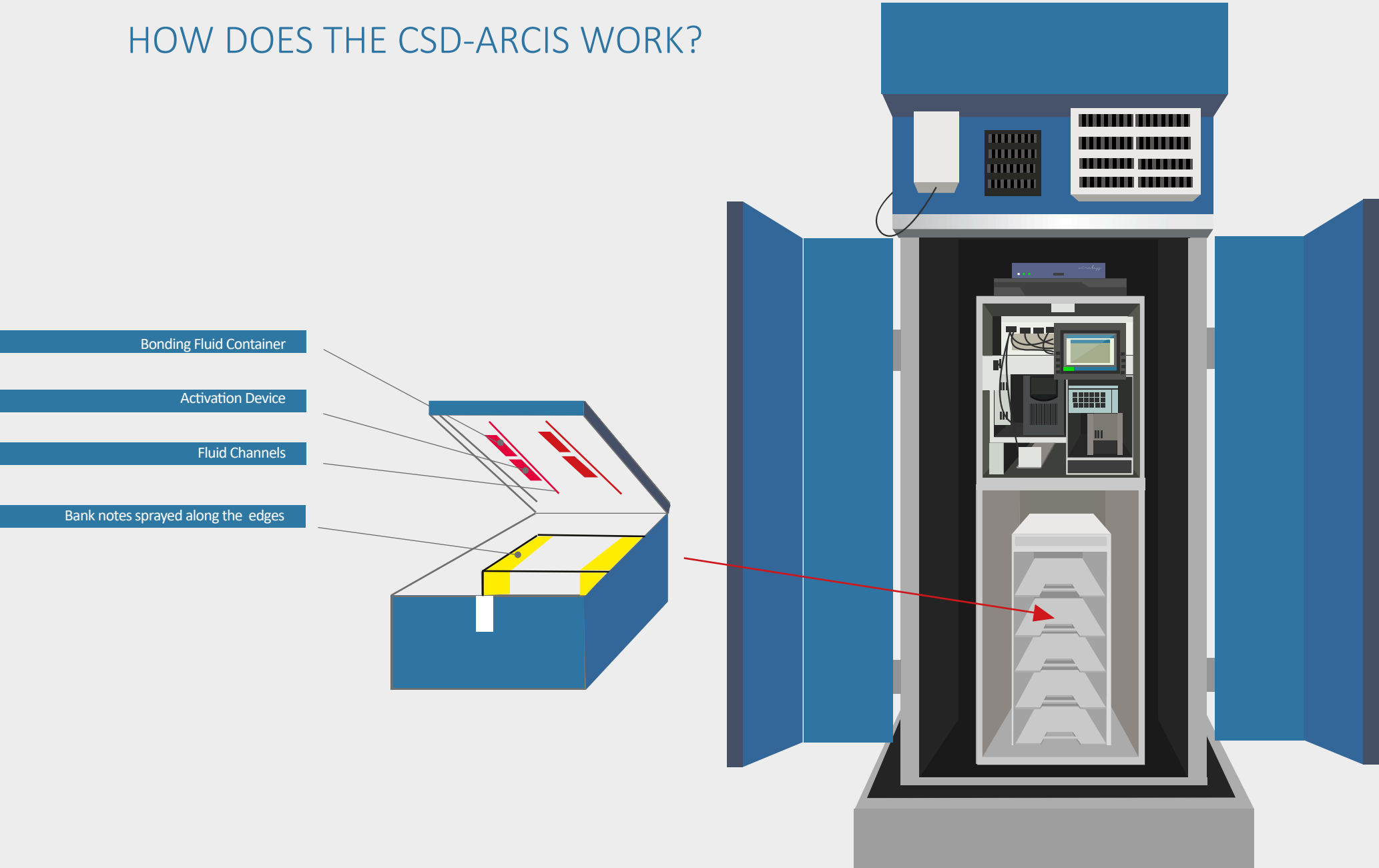


“ The first time I saw a live demonstration of the CSD-ARCIS, I was amazed at how immediate the activation was and its effectiveness. I walked away confident that this type of product has the ability to change the way we store and protect our bank notes. ”



THE CONCEPT
ITSELF IS SIMPLE.
THE TECHNOLOGY
AND R&D TO MAKE
IT HAPPEN.... THAT'S
ANOTHER STORY

HOW DOES THE CSD-ARCIS WORK?



The CSD-ARCIS unit is a small device built into the lid of the ATM cash cassettes, supported by a second device housed within the ATM itself; the two linked via a wireless connection.

The reconditioned lid has a small canister of bonding fluid and an activation unit. Once released, the liquid is sprayed along the top of the bank notes, dispensed through a purpose built fluid channel, designed to expel the bonding agent quickly and evenly across the edge of the notes, a key feature to the CSD-ARCIS.

The incredibly effective fluid is immediately absorbed into the fabric of the notes, fusing them together. Importantly, the notes can still be counted and authenticated, but rendering the entire block of notes worthless to the criminals and irreparably damaged if attempts are made to free the notes.



ACTIVATION TRIGGERS

The device is activated as soon as one of the sensors detects a change in the ATM environment, for example:

- The ATM Being Tilted
- Heat Detection
- Unauthorised Opening Of The Safe
- Gas Detection
- Physical Attacks

This secure environment and the effectiveness of the CSD-ARCIS device, signals a change in the protection of bank notes, with ramifications on how financial institutions are able to ensure the safety of their ATMs.

KEY TO THE R&D OF
THE CSD-ARCIS IS
THE REPATRIATION
OF THE BANK
NOTES





CASH REPATRIATION

Key to the successful delivery and development of the CSD-ARCIS, was ensuring the Central Banks were confident in the solution and that they would redeem the notes rendered useless in the event of a firing.

This key goal was confirmed following extensive testing and live fire demonstrations for a number of Central Banks in the United Kingdom and across Europe. Our extensive product development and testing to produce an end result that could easily be identified by the Central banks, making it easy for them to quickly ascertain the note value, condition and robust destruction method, ensured the CSD-ARCIS's green light on all counts.



This was a key driver for the R&D Team. The product had to leave the bank notes with the serial numbers clearly visible and the ability for the Central Bank to easily identify and repatriate the currency for our customers.





LIKE ALL GREAT
JOURNEYS WORTH
RECOUNTING, THE
DEVELOPMENT OF
THE CSD-ARCIS
STARTED WITH AN
IDEA AND SOMEONE
DETERMINED ENOUGH
TO SEE IT THROUGH

INSPIRATION & HISTORY

The birth of an idea. The genesis of the CSD-ARCIS.

The CSD-ARCIS is a concept born from the traditional explosive dye method, where bank notes are covered in a coloured ink.

With many banks and manufacturers seeking an alternative solution which would render the contents completely worthless, a product was needed which could achieve this as well as make the notes recoverable.

Many companies have attempted to replace the dye with glues, but none have been successful in delivering a completely effective product, until now.

Early market research, with demonstrations at various industry events, proved there was a hunger for the product we were developing, to not only work, but ultimately replace the dye solutions permanently.

THE TECHNICAL DATA SHEET. UNDERSTANDING THE COMPOSITION OF THE CSD-ARCIS

Available on request

DEBATIN has a thorough and detailed Technical Specification Document outlining the composition of the device and the activation fluid. If you would like a copy of this, please contact DEBATIN, as this can be provided.





Anton Debatin GmbH
Vichystraße 6
76646 Bruchsal, Germany
phone: +49 7251 8009 100

your contact person: Andreas Heidt
mobile: +49 1761 8009 750
mail: andreas.heidt@debatin.de

