



DESIGNED
TO ENHANCE
YOUR APPLICATION



THE WORLD IS CHANGING

– AND SO IS CASH DISTRIBUTION

Just after 2008, banks decided to become increasingly virtual. Many banks reduce costs by closing down branches and consequentially, more and more cash distribution is left to CIT and automatic distribution (ATM's). The users of cash such as the retail sector and consumers greatly depend on these services and a growing number of solutions from CIT, cash handling manufacturers and the more than 3,5 Million ATM's worldwide.

"RECYCLING" AND "EFFICIENCY" GROW IN IMPORTANCE AND INFLUENCE

In competition with a growing jungle of new payment methods, from the national and international payment cards to mobile transactions, the cash industry has managed to improve the efficiency of handling cash, which has made it one of the safest, fastest and most cost-effective ways of payment. New cash concepts have been introduced among other decentralized cash recyclers, payment terminals and self-service check-outs, demonstrating considerable savings in time and money. Likewise, most ATM's now offer recycling capabilities that make depositing notes as easy as withdrawing them!

Today, most retail cash deposit systems, payment terminals, self-service check-outs and deposit systems, are capable of accepting both notes and coins. With a growing number of improvements every year, 2-digit growth performance can

be expected. The driving force behind such innovations are CIT and large retailers who strive to achieve the most cost effective and efficient cash handling operation. Exciting predictions even point to the development of coin deposit and withdrawal systems in ATMs.

THE CUMBERSOME COIN

The biggest issue and most significant challenge for all involved in cash handling solutions is around coin handling. Coins are quite problematic when you think about it. They are dirty, uneven, diverse, heavy, voluminous, complex, and costly to handle. The machines handling coins must be carefully designed, taking into consideration the variety of complications that must be examined throughout the entire process.

NICHE KNOWLEDGE AND QUANTITIES

Very few companies are involved in developing coin technologies, primarily due to the relatively small quantities per currency compared to note handling technologies. Additionally, however, this market requires a unique knowledge that only comes from years of experience and special attention to the intricacies of mechanical and electronic coin handling.





LET US COMPLETE YOUR APPLICATION

SPECIALISTS

IN COIN COUNTING, SORTING AND RECYCLING TECHNOLOGIES

CTcoin has been working with coin handling for the last 45 years and has thus become one of the leading experts in developing, manufacturing and distributing coin counting, sorting and recycling technologies. Recently, CTcoin shifted its strategy away from developing its own coin brands in order to focus on OEM coin technologies and private label products. CTcoin maintains its focus on what we do best and we don't wish to compete against our current and potential customers, but rather offer technologies, design, and manufacturing capabilities and know-how to the leading solution providers worldwide.

EXPERTISE

The expertise that CTcoin offers cannot be taught. Coins are what we do. We have taken advantage of our overwhelming amount of knowledge and skills such as: removing unwanted paperclips, bottle caps, dust and dirt from coins, securing accurate pay outs. Preparing for lower quality coins in the future, knowing the planned coin reforms and new issues of coins. Designing technologies to cope with immense static electricity and planning for the enormous variety of coins around the world – these are all necessary practices and disciplines when designing coin technologies. Everything will be taken into account when developing the next generation sensor or to produce a complete private label product.





HOLISTIC AND MINIMALISTIC APPROACH

CTcoin prides itself on its customer oriented approach to business and focuses on its foundations in the cultivation of expertise, knowledge and technology. Our objective is to produce reliable, durable and accurate coin counting, sorting and recycling technology. Working with us couldn't be easier. Our flexibility and speed guarantee an excellent service experience while still delivering the necessary and specific solutions. As a component and technology supplier to large solution providers, we realize how important it is to facilitate easy access to professional support, spare parts and documentation. We offer face-to-face demonstrations and training sessions locally or at our HQ in the heart of Denmark. We are travelers and believe in mutual visits and moreover, in personal commercial and technical support, which you can call at a moment's notice. We provide all

relevant documentation, 3D drawings, protocol descriptions, spare part lists, manuals, patents, datasheets, test results/procedures, certificates and approvals for seamless integration and security.

BUT BEST OF ALL...

Good intentions mean nothing if the quality is poor or the price too high. Our Scandinavian heritage, specifications, supplier and manufacturing partners strive to secure "best in class" and uniform quality. Our chosen technology and design approach is "keep it simple". Same software, same interfaces, same parts, same philosophy – all of which makes life easier for developers, service techs – yes, everybody. Complex and expensive designs might work well, but we are specialists in a free fall/rail technology which is simple, functional and thus very cost effective.



The unique CTcoin cleaning system removes debris like dirt, paper clips, bottle caps etc. from the inserted coins.

CHOOSE THE RIGHT TECHNOLOGY OR SOLUTION FOR YOUR NEED

– WHY RISK ANYTHING ELSE?

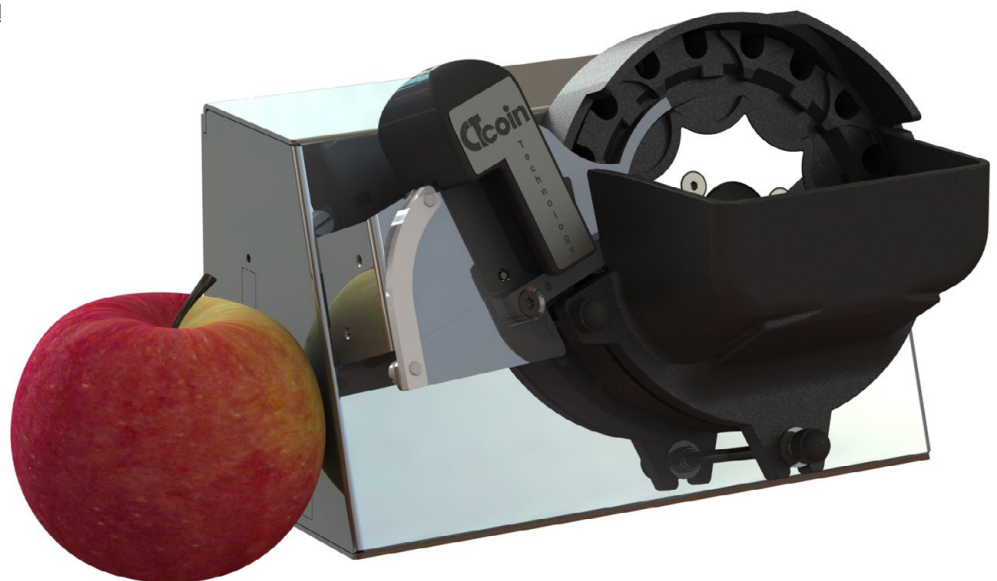
Like any other technology, CTcoin's technology philosophy has benefits but also limitations. Based on our mutual experience and your wishes and requirements, let's work together to choose the perfect solution for your situation. Whether it is a CTcoin component, a competitive module or whether you just want a counter, coin tube or a complete tailor-made recycler fitting your ideas to a "side-car".

TECHNOLOGY

Our coin counting and sorting technology is service and maintenance friendly, fast, compact, reliable, accurate, durable and silent. This is the heart of the coin application, but CTcoin offers so much more: transport systems or inspection trays to move coins, coin cleaning systems, coin tubes, sorting systems, hoppers, controls, on-line capabilities, escrows etc. And it doesn't stop there! Significant new projects are in the pipeline as we work towards our objective of continuously improving efficiencies in the industry of coin identification and transport!

DELTA, COMPAC OR SOMETHING UNIQUE?

How many coins must be counted, sorted and re-cycled per minute? Is there a need for sorting? If so, how many coins must be sorted? Which currency and denominations must the application be able to handle? What are the physical dimensions and what is the MTBF? What about the hopper capacity and if simultaneous counting and sorting is possible? Where do the rejects go and how is the legislation around this? How does the V5 sensor work and is it possible to fill 2 hoppers with the same denomination? What is the power consumption and will it be possible to update coins sets remotely? The possibilities are incredible to fit any situation you could think of.



GOT ANY QUESTIONS?

Why not contact us like so many other large, well-known cash handling companies have done? We cooperate and collaborate with OEM customers all over the world. We are ready to discuss your challenges, specifications, timelines and how we can enhance and innovate your application with a cost effective and efficient solution!



QUALITY INSIDE

V5 SENSOR
TECHNOLOGY

DG ECFIN
✓ Approved

optional online
CONNECTIVITY

 **ONE software**

Deutsche
Bundesbank
✓ Approved





QUALITY TECHNOLOGIES FOR
PROFESSIONAL COIN HANDLING



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