



Optimize and integrate cash management

Scalable Cash Cycle Solutions –
securing the future of your cash center



BANKNOTE SECURITY
TECHNOLOGYHIGH-QUALITY
PRODUCTIONSCALABLE CASH CYCLE
SOLUTIONSINTELLIGENT
AUTOMATION SOLUTIONSSMART SERVICE
SOLUTIONSDIGITAL
SOLUTIONSBENCHMARK IN
BANKNOTE DESIGNExpanding possibilities with
Advanced Currency Management

Expanding possibilities for cash centers of any size

Together with you, we aim to digitalize, integrate, and automate the production and distribution of currency to optimize efficiency and security and future-proof your business

With Advanced Currency Management, we combine our long-standing expertise in cash production and cash management, to seamlessly connect people, assets, processes, and resources along the entire cash cycle. By taking a broader and more holistic view, we gather powerful insights of not just current, but also future, requirements, and apply them to provide our clients and partners with measurable results.

End-to-end scalability

Our Scalable Cash Cycle Solutions utilize this unique G+D positioning to offer greater efficiency and security for high-level automation and end-to-end infrastructure, to cash centers of all sizes. The holistic offering includes a wide range of key services and solutions, tailored to the specific needs of our clients. The major solution areas include high-speed banknote processing systems, compact processing systems, banknote destruction, automation systems, digital solutions, and smart service solutions.

In addition, and the focus of this brochure, we offer consulting, cash center solutions, cash centers as a managed service, and professional coin processing.

No matter the size of your operation – whether central bank, large-scale commercial cash center, or a smaller outfit – our Scalable Cash Cycle Solutions enable you to upgrade your agility, productivity, and security. You can add to the core value of your products and services, ensuring you remain efficient, adaptable, and resilient, well into the future.

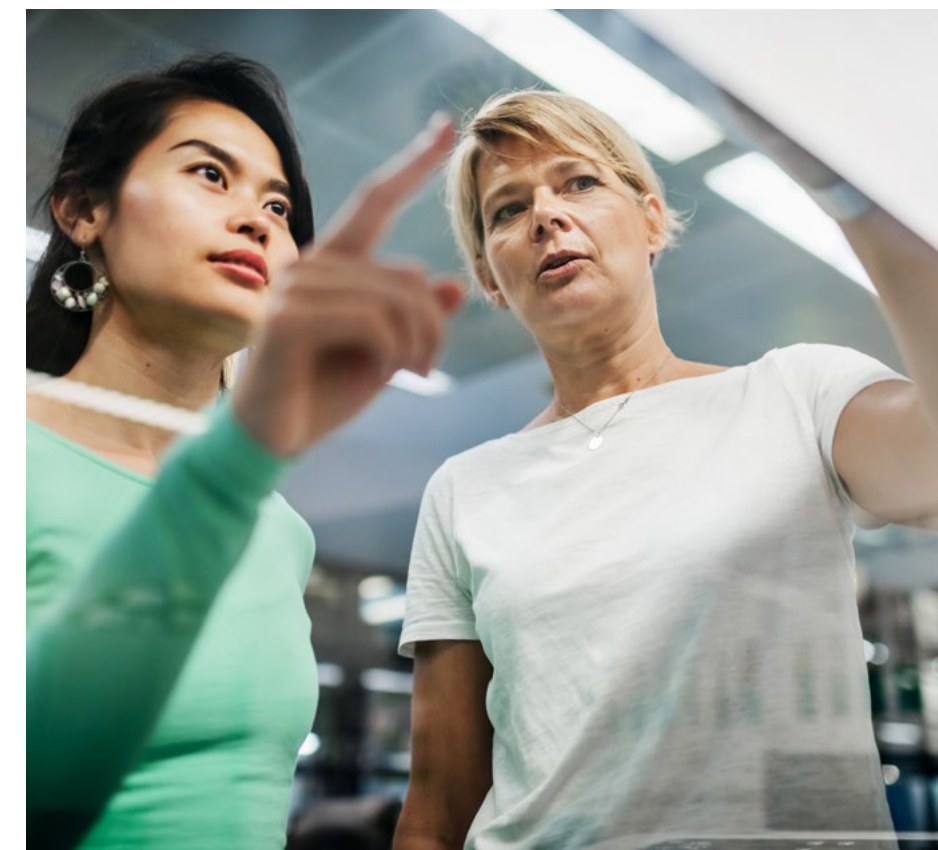
Optimize your business with cash cycle analysis

Comprehensive cash cycle analyses are no longer a luxury, but a necessity. In a currency cycle context, every market, cash center network, operation, and even individual department and team is different.

G+D not only has a deep understanding of such complexities, but we also have the tools and expertise to resolve specific concerns that arise from them. Within this context one universal truth holds: the greatest efficiency, security, and productivity gains are made by looking at the whole picture and understanding the underlying barriers or opportunities that need to be addressed to optimize results. Furthermore, in order to be truly successful, this must be tailored to the unique and individual requirements of each market and operation. Our experts can determine the most effective ways to resolve your particular needs and challenges through a personalized consultation. As part of the Scalable Cash Cycle Solutions, G+D's cash cycle analysis utilizes our deep understanding of cash cycle dynamics to identify and then achieve your specific performance goals. From this foundation, working in two phases, our expert consultants work to identify the best ways to implement smart automation and software, standardized processes, enhanced IT, and security. We will advance your operations, making them more adaptable to individual future requirements, by always placing collaboration and integration at the fore.

Phase 1: Analysis

The initial phase involves an analysis of processing data and all relevant process steps, sorting specifications, the building, the rules and regulations of each specific cash cycle and cash center, as well as a detailed cost structure analysis. It also includes the identification of bottlenecks and redundancies along the entire process chain.



Maintain optimized operations

Phase 2: Dimensioning and design

Within the second phase, G+D consultants provide tangible recommendations for an optimum solution design, involving the dimensioning of both people and technology. A final layout incorporates all aspects covered within the analysis, from incoming cash to cash deliveries, to ensure that you maximize productivity and future-proof your operations.

By delivering clear, holistic, and future-proof insights and recommendations, tailored specifically to your situation and requirements, G+D's cash cycle analysis offers an immediate and sustainable way not only to improve your operations, but also to expand your possibilities in the future

Tailor end-to-end cash center solutions to your individual requirements

The success of an end-to-end cash center solution is in its ability to enhance the most important steps and processes specific to your operation – from cash processing, to vault management, to distribution – in an integrated manner. Nothing less



Different cash centers require different approaches. With our long history of expertise, G+D is perfectly positioned to provide professional recommendations on how your organization can best profit from a revamp or rebuild.

By returning to the foundational infrastructure and processes within your cash center, we work with you to completely modernize your operations and shape a secure and efficient cash center, which remains optimized in the future. Here, we offer two main avenues:

Brownfield – (modernization)
Building upon an existing cash center, G+D can implement optimal processing equipment, automated solutions, software, and tailored design to boost your operations and increase productivity, security and cost-effectiveness.

Greenfield – (new build)
From buying property to planning construction, our experienced staff help you to design and build a cash center that is future-proof, adaptable, and consistently efficient, right from the outset.

A tailor-made and well-planned cash center will deliver greater and longer-lasting operational excellence

We undertake four major steps to reach the ideal cash center solution:

1. A full requirement profile

Our experts are in a unique position to scrutinize not only the cash cycle in your respective country, but also the role and function of your cash center within it. This step also involves an analysis of cash flows, capacity, the quality and quantity of banknotes and coins, delivery times, volume fluctuations, and shift patterns – essentially a fully integrated investigation into the processes, processing systems, people, and technology, and how each of these components can become more efficient.

2. Tailor-made solution concept and design

Every cash center is different, and solutions must be focused on specific requirements in order to become truly efficient and secure. From the floor plan to the project schedule, our comprehensive redesign ensures that every aspect of your cash center is optimized to reflect your specific needs and circumstances, ensuring that you thrive in your given environment.

We plan and present detailed solution models and a concept design of all components and technology, starting with cutting-edge banknote processing systems. Best practice processes are incorporated into every facet of the design – from

saving more energy to optimizing processing capacity, enhancing security, and increasing automation operations-wide.

3. Implementation of maximum productivity

Manufacturing of banknote processing systems, and installation and/or configuration of the agreed-upon solutions, is delivered on time for every project. Alongside test preparations, detailed instructions, and long-term training, G+D also provides on-site support during the start-up phase. The implementation is professionally carried out with the help of a dedicated team, comprising consultants, project managers, engineers, designers, technical experts, and after-sales support.

4. Life support and service

We understand that for optimum availability to remain steadfast for the entire lifetime of a cash center, long-term support and service is vital. You can rely on our technical support and remote service globally at any time. Our service packages are tailored to customer requirements and include both on-site inspections and preventative maintenance, as well as support during relocation or installment.

Automate coin processing with cutting-edge technology

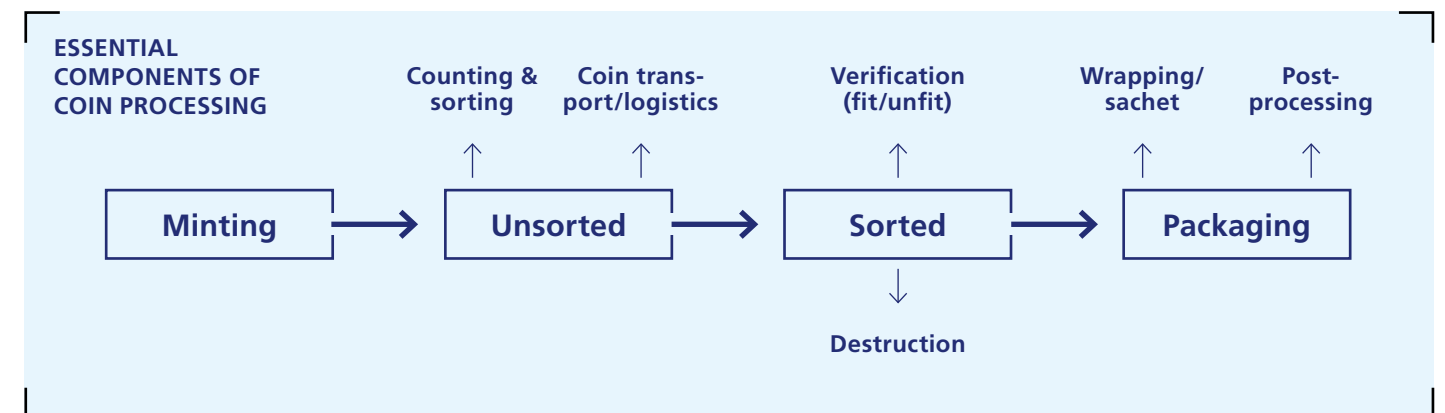
Contemporary coin processing has become synonymous with automation, as cash centers look to technological advances to help resolve security issues

and increase efficiency. G+D's sophisticated end-to-end coin solutions, which feature state-of-the-art automation, are designed to tackle the requirements of high-volume coin processing. This enables cash centers and dedicated coin centers to optimize productivity, quality, and efficiency.

From minting to packaging, our end-to-end coin solutions include precise counting, verification and sorting, intra-logistics, as well as wrapping and post-processing. Our automated systems maximize efficiency and provide real-time visibility over the quantity and quality of coins at every stage of the operation – whether during optical inspections, weighing, or transport along the conveyor belt. Overall, they ensure that your cash center can maximize its productivity, while sustaining quality.

5,000

commercial cash centers and 150 central banks across the world already benefit from our expertise



Our end-to-end infrastructure covers all stages of coin processing, as part of our comprehensive cash center solutions

Gain agility and maximize success with Business Process Outsourcing

The efficient, robust, and sustainable operation of a cash center is pivotal to its success. Therefore, the business model, which determines how a cash center is organized, must be flexible, agile, and responsive enough to meet the challenges of the day – and those of the future

G+D's Business Process Outsourcing (BPO), part of Scalable Cash Center Solutions, enables cash centers of all sizes to take advantage of our expertise in designing – and implementing – a new business model. Whether to kick-start greater success or as sustained commissioning in the long term, G+D professionals will help you to capitalize on scalability and state-of-the-art technology to enhance your responsiveness and operate as securely and efficiently as possible. To best meet your specific needs, BPO follows four steps, with three tailored business models:

1. Selection of business model from three tailored options:

- Full cash center operation, in which G+D operates in your location under your name
- Operation of specific functional areas, for example banknote fitness sorting or performance monitoring
- A customized solution to match your needs – G+D initially takes over operation and then transfers the running of production back to you

2. Detailed process analysis and business analysis, to shape a customized solution, with both parties agreeing on production volumes

3. G+D support of a wide range of OPEX models, to allow you to keep liquidity for your core tasks, reduce your overhead costs, and prevent time-intensive quality management

4. Continuous improvement of services with no impact on your customers' processes, with comprehensive reporting to maintain control



45

years of experience
in future-proofing
cash centers

Future-proof cash management operations

At a time when decisions need to be made instantaneously, and true excellence is hinged on technological acumen and broadening perspectives, all players in the cash cycle must assess the optimization potential of their operations.

G+D's Scalable Cash Center Solutions offer a powerful way for a cash center network with cash centers of all sizes to draw on decades of expertise and cash cycle insights, to optimize all facets of their business. From initial cash center analysis to comprehensive end-to-end solutions, coin and banknote processing automation, business model design, and operation outsourcing, our key services and solutions are devised to not only drastically improve the way you do business today, but also expand possibilities for tomorrow.



Want to learn more about how our rich insights and integrated approach can optimize and future-proof your cash center network?

Contact our experts for a personalized consultation today!



Over 3,600 m² in size, the Bank Central Asia's new cash center comprises digitally connected hardware, software, and control systems, plus storage capacity for 120 million banknotes

» Combining cash center design, software, and technology [ensures] that the entire cash stock flow remains constant and stable. This is the most efficient, secure, and almost fully automated commercial cash center not only in Indonesia, but the world over.«

Albert Philipp
Project Leader and Senior Cash Center Professional at Bank Central Asia in Indonesia



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