

GLORY

RBG-200 series

Teller cash recycler

Future-proof, intelligent
cash management



reddot design award
winner 2013

The evolving role of the bank branch

“ The global financial industry is in a heightened state of change today. Proliferation of channels, government regulations, operating costs and competitive business challenges are everyday, and real-time. ”

The global financial industry is in a heightened state of change today. Proliferation of channels, government regulations, internal and customer accessed technology, operating costs, capital investment choices, general and competitive business challenges are everyday, and real-time. Offsetting this, of course, is an equal or greater proliferation of opportunities, for the prepared financial institution ready and willing to support customers and their growing needs. A central decision for most financial institutions is how they will leverage a primary, unique asset in a rapidly changing environment: the bank branch network.

Consolidation in the banking and finance marketplace highlights the fundamental need for the branch network to remain the primary marketing and service delivery mechanism for financial institutions. The recent financial crisis has affected consumer confidence in both the role and delivery of bank services and propositions. This new financial climate has brought into sharp focus the entire nature of the bank-branch-customer relationship and how it is managed, maintained and developed.

Many delivery channels have emerged in the past few years, each offering a convenience advantage to the customer and/or a delivery cost advantage to the financial institution. Yet, when asked, customers continue to see the branch as a critical resource, for their larger, more complex, and more sensitive transactions, and banks see the branch as the best way to attract customers, develop relationships with them and close sales.



Creating the right branch environment

The branch remains the principal face-to-face contact point for customers and an essential channel through which customer relationships can be deepened. The traditional branch is facing a range of new challenges whilst it continues to act as the central point of interaction between the bank and its customers.

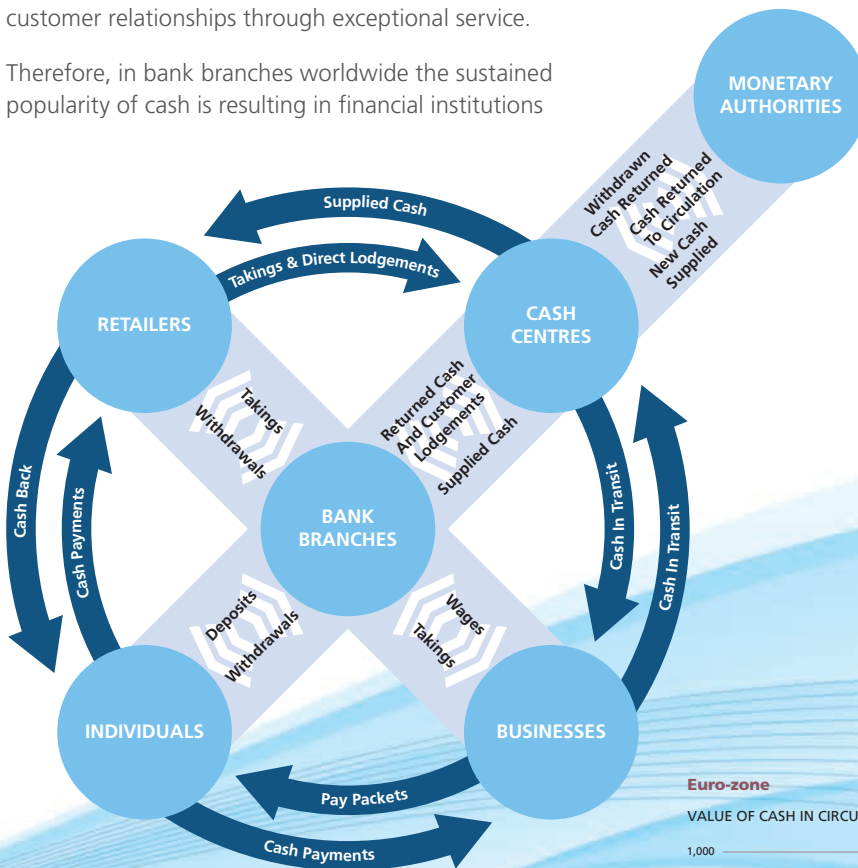
Cash usage and the volumes of banknotes in circulation continue to grow and remain the payment method of choice for consumers. The result is that, despite the proliferation of digital payment systems, cash is still very much an intrinsic part of business and consumer everyday life.

This is evident in the branch as cash continues to be a primary driver of footfall, with research highlighting that a significant proportion of overall branch traffic is still cash related. This provides the opportunity to create a branch experience that will continue to attract, retain and develop customer relationships through exceptional service.

Therefore, in bank branches worldwide the sustained popularity of cash is resulting in financial institutions

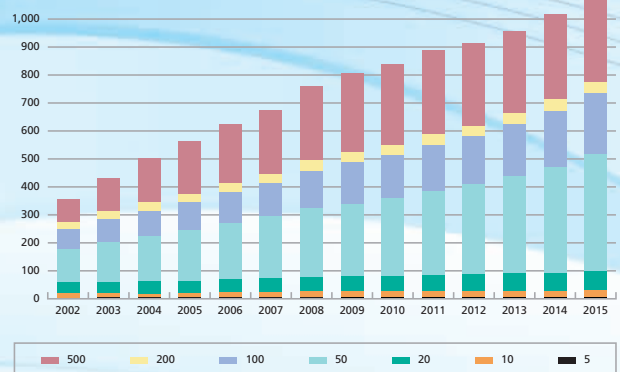
increasingly adopting technologies to efficiently manage it, whilst enabling them to focus on their core aim of retaining and growing customer relationships.

Retail banks worldwide are discovering the multiple benefits of implementing cash handling solutions, not only to their bottom line, but in the contribution they can make towards creating that ultimate in-branch experience for customers.



Euro-zone

VALUE OF CASH IN CIRCULATION IN BILLIONS OF EUROS



Source: European Central Bank, September 2016

Transform customer relationships and drive profitable operations

A recent study found that 86% of current accounts are arranged at the branch, which continues to be a vital centre to communicate financial products, identify referrals, generate sales and solve complex service issues. Although bank branch design varies markedly around the world, some common themes appear quite consistently in those banks seeking to promote greater customer focus.

As cash in circulation continues to grow, banks and financial institutions around the globe are handling more cash than ever before through their branches. Recycling cash in-branch can help to significantly ease this burden, and reduce costs. Glory teller cash recycling impacts many areas of the bank branch, enabling financial institutions to focus on service excellence together with increasing customer engagement, whilst still reducing cost.

1. Reduce branch operating costs and improve operational efficiency:

- Reduce time taken to complete start and end-of-day procedures
- Reduce cash inventory and associated costs within the branch
- Balance footfall within branch, with the number and locations of service positions
- Easily integrate TCR technology within existing branch layouts and furniture
- View cash balances within the branch instantly, to enable effective cash forecasting

2. Improve teller productivity and eliminate repetitive low-value tasks:

- Reduce cash deposit transaction times and eliminate manual note counting
- Automate banknote authentication and fitness sorting
- Dramatically reduce vault buy and sell transaction times
- Reduce human error during the transaction process
- Alleviate dual custody control challenges



3. Enhance cash security and lower branch risk profile:

- Lowering cash volumes reduces overall security risk
- Avoid unnecessary build up of cash reserves
- Compliance with bank policies and procedures (physical and active security)
- Minimise cash exposure
- Minimise the threat of branch robberies and subsequent losses
- Reduce counterfeits being accepted at the branch

4. Improve employee job satisfaction:

- Improved working environment
- Improve staff job content and lower staff turnover
- Reduce shrinkage
- Make cash handling processes more hygienic

5. Reduce reliance on CITs and associated cash management costs:

- Optimise cash usage in the branch
- Lower the cost of cash delivery and transportation
- Improve cash forecasting to minimise orders and frequent or unnecessary cash deliveries
- Localise costly activities, such as in-branch ATM replenishment, fitness sorting and cross shipping

6. Increase branch revenue and cross selling opportunities

- Enable branch process change to maximise revenue generation
- Increasing new accounts, cross-selling and up-selling opportunities
- Develop branch staff sales skills, rather than technical competence

7. Improve customer engagement and experience in the branch

- Encourage interaction between customers and staff and allow more time to be spent with customers
- Shift the focus from the physical transaction to relationship building
- Enable an open-plan environment for enriched customer interaction
- Reduce queues and waiting times for customers in the branch
- Eliminate expensive alternative security measures to create free space

RBG-200 series: the most advanced development in cash handling technology

The RBG-200 series teller cash recycling solution is part of a range of best-in-class cash automation and management solutions from Glory. The RBG-200 range delivers real business benefits at multiple levels within the branch, presenting a comprehensive and integrated solution to effectively and efficiently address the requirements of the customer, the teller, the branch manager, and the bank executive team in daily banking service delivery.

Based on the experience of over 100,000 TCR installations worldwide and in-depth customer interactions, the RBG-200 series teller cash recycler has been designed to include a range of industry first innovations. The RBG-200 series helps optimise in-branch cash processing through quicker and more accurate transactions, which deliver a positive impact on customer service, help reduce associated costs and will greatly improve the overall customer experience.

The ability of the RBG-200 to scale to a financial institution's evolving requirements is one of its most powerful strengths. Each branch is different and needs vary; even current requirements can change radically over time.

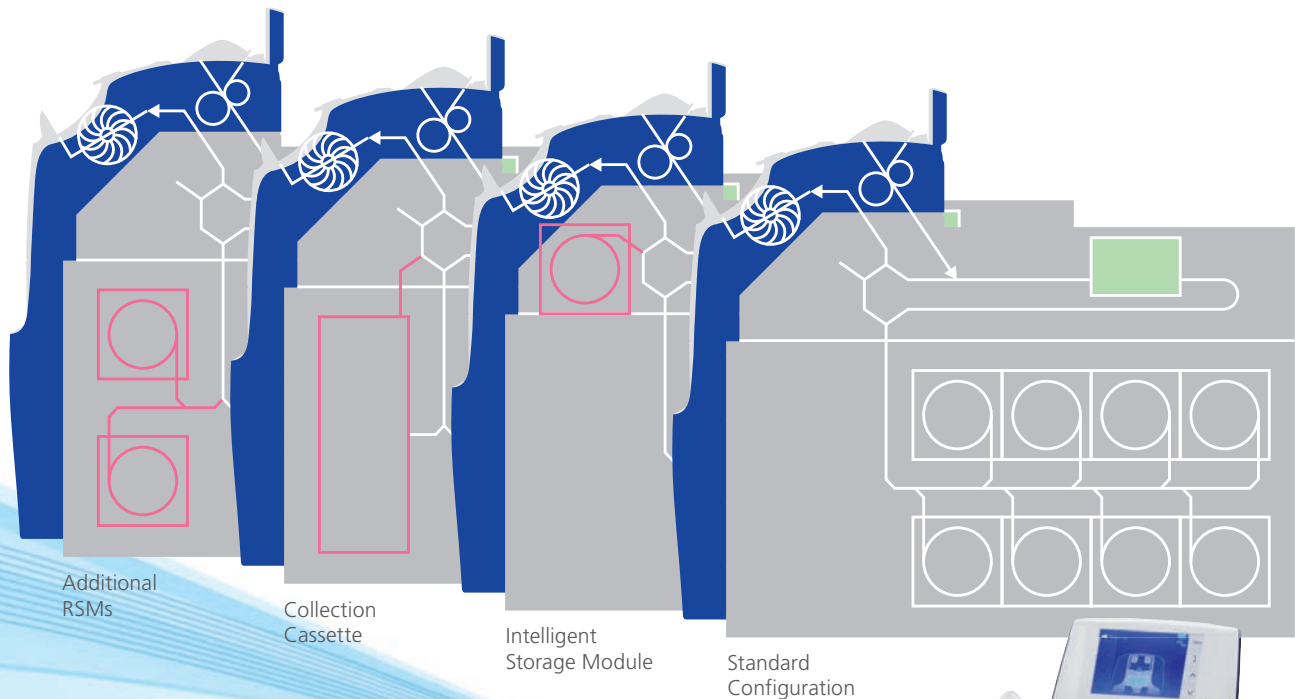
Offered in a variety of configurations, with upgrade paths to allow the system to adapt to meet evolving cash handling environments, the RBG-200's unique and flexible design, coupled with an intuitive and user friendly interface, allows staff to become familiar with the system quickly and easily. Key features of the RBG-200 include:

- **Scalable Storage Modules** – A flexible range of banknote storage options with variable capacity and configuration
- **Increased Processing Speeds** – With its continuous feed functionality, the RBG-200 offers fast processing speeds for large deposits without interruption
- **Multi-currency Support** – The RBG-200 can accept 128 different denominations simultaneously, allowing it to continually adapt to changing processing requirements
- **Remote Update Ready** – The RBG-200 supports remote updates to meet future requirements of new note templates, banknote fitness and security features
- **Serial Number Recognition** – The RBG-200 can support full track and trace functionality of deposited banknotes
- **Touch Screen Display** – Provides intelligent user assistance and direct access to key teller functions, all to improve efficiency and availability
- **Fitness Detection** – The RBG-200's superior banknote detection technology provides advanced authentication, identification and fitness analysis
- **Collection Cassette** – With the addition of an optional collection cassette, the RBG-200's capacity can be increased and also a variety of additional processing capabilities can be performed
- **Intelligent Storage Module (ISM)** – Utilising the Intelligent Storage Module (ISM), enables capabilities, such as the storage of counterfeit/non-authenticated banknotes, efficient auditing and count mode



A compact footprint and flexible configuration to suit all branch environments

The RBG-200 series offers a unique and flexible design, allowing it to be configured to meet a wide range of banknote processing requirements. The standard configuration is offered with 8 rolled storage modules, holding 4,800 recyclable banknotes, all within a compact and secure safe. The teller cash recycler can also be configured to add an additional 2 RSMs, bringing the total to 10 rolled storage modules, or, the addition of a collection cassette that holds 2,000 banknotes. In addition to the ability to scale note storage capacity, an Intelligent Storage Module (ISM) can be added, to provide further processing flexibility.



RBG-208 The new standard for reliability, offering scalability and investment protection

RBG-208I A flexible TCR with enhanced Intelligent Storage Module functionality

RBG-208c 8 RSMs with the addition of an optional collection cassette to provide extended storage capacity

RBG-208Ic A combination of intelligent storage module and collection cassette to offer enhanced functionality

RBG-210 10 RSMs; the TCR solution for branches where a large recycling capacity is essential

RBG-210I A unique combination of increased banknote processing functionality and large capacity recycling



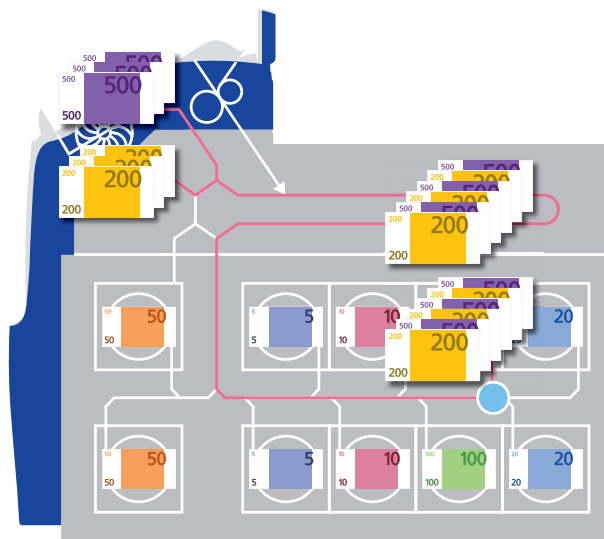
Intelligent Storage Module (ISM) function, for further flexible banknote processing

With a storage capacity of approximately 600 banknotes, the ISM can be utilised for various flexible processing applications. It can act as a physical escrow, whereby notes are initially deposited to the ISM, after being counted and authenticated. Once the customer is in agreement with the count, notes can then be deposited to the secure RSM storage. Or if required, the exact same notes, in the order deposited into the ISM, can be returned to the customer.

Multi-denomination storage on one RSM – Typically only one denomination is assigned to an RSM; however through the use of the ISM, it is possible to store more than one denomination on a storage module. Particularly useful in scenarios where a high volume of lower denomination banknotes are required for recycling, higher value and less frequently required denominations can be stored on one RSM.

Efficient auditing – The ISM can be utilised to perform a special audit, whereby all notes stored on an RSM are sent to the ISM, to confirm the total number of notes in storage, without notes ever leaving the device. This is often a useful procedure to perform when a Bank's policy requires the audit of cash inventory levels on a frequent basis.

Flexible configurations – The RBG-200 can be used in an attended customer operated environment; the ISM would be used to store counterfeit or suspect banknotes.



Example: High value notes are stored on one RSM. ISM allows temporary off-sorting of notes not required to fulfill the transaction.

Serial number recognition for full track and trace capabilities

This optional feature provides data to enable track and trace of all banknotes deposited into the RBG-200. By reading the unique serial number on each banknote, this information can be made available to external data systems for comparisons to records of suspected counterfeit banknotes. In addition, when used as a customer operated device or in an attended customer assist application, banknotes that are deposited by customers that are found to be counterfeit, must have a record of the event assigned to that customer's account. The RBG-200 can pass the serial number information up to the bank's own teller application to then be matched to the customer account from which the counterfeit came.

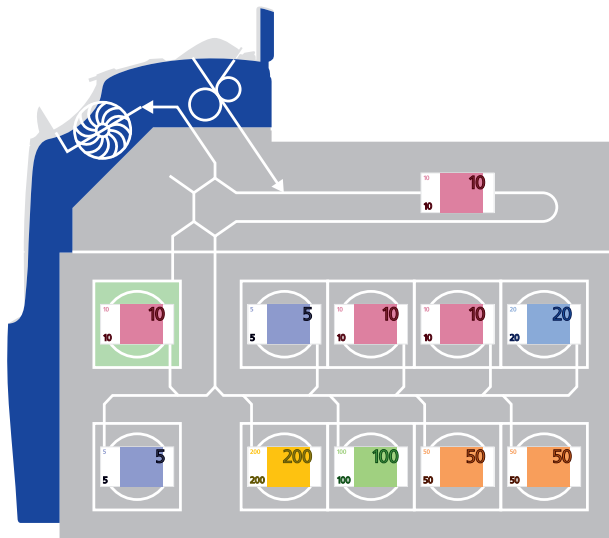


Configurable expansion options, to meet various processing requirements

Scalability is a further strength of the RBG-200 series. By either adding 2 additional rolled storage modules or a collection cassette, capacity of the RBG-200 can be increased to meet a customer's evolving needs.

With an additional 2 RSMs, the RBG becomes a 10 rolled storage module device (RBG-210), which provides a number of useful applications:

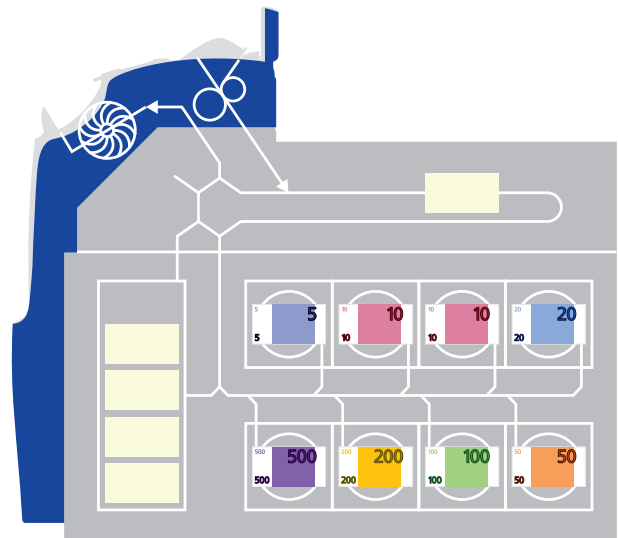
- Allows more than one RSM to be assigned to a specific denomination.
- Additional storage to process other currencies.
- To hold banknotes classified as unfit or suspected counterfeit/unauthenticated banknotes.



Example: Additional RSM's hold specific denominations that are required in large volumes

The use of a collection cassette offers a number of its own benefits:

- Secure and controlled unloading of excess notes; can be further sorted and processed for re-use elsewhere in the branch, or to await collection by a CIT provider.
- Store other denominations and currencies that are not held in the main RSM storage area for recycling.
- Unfit banknotes, which are not suitable for in-branch recycling, can also be stored in the collection cassette.



Example: Collection cassette holds an additional currency that is commonly accepted in the branch

A consolidated software suite and supporting tools

RBG-200 teller connectivity with CashInsight™ Assure

CashInsight Assure is the benchmark in teller connectivity applications, facilitating the operation of teller automation devices. By handling primary cash transactions, including deposits and withdrawals, recording and journaling transactions, multi end-of-session or end-of-day balancing, CashInsight Assure provides comprehensive accounting functions and offers easy-to-use reconciliation features.

Remotely monitor and manage RBG-200 with CashInsight Bridge

Availability of cash automation devices is of paramount importance to any financial institution that has deployed cash handling solutions in their branches. The CashInsight Bridge solution helps monitor and manage your fleet efficiently and cost-effectively; thereby increasing operational availability and providing real time performance data. Utilising CashInsight Bridge with RBG-200, financial institutions are able to: monitor the status of their device fleet, view and act upon diagnostic reports and deploy system updates/upgrades for all, or selected devices.

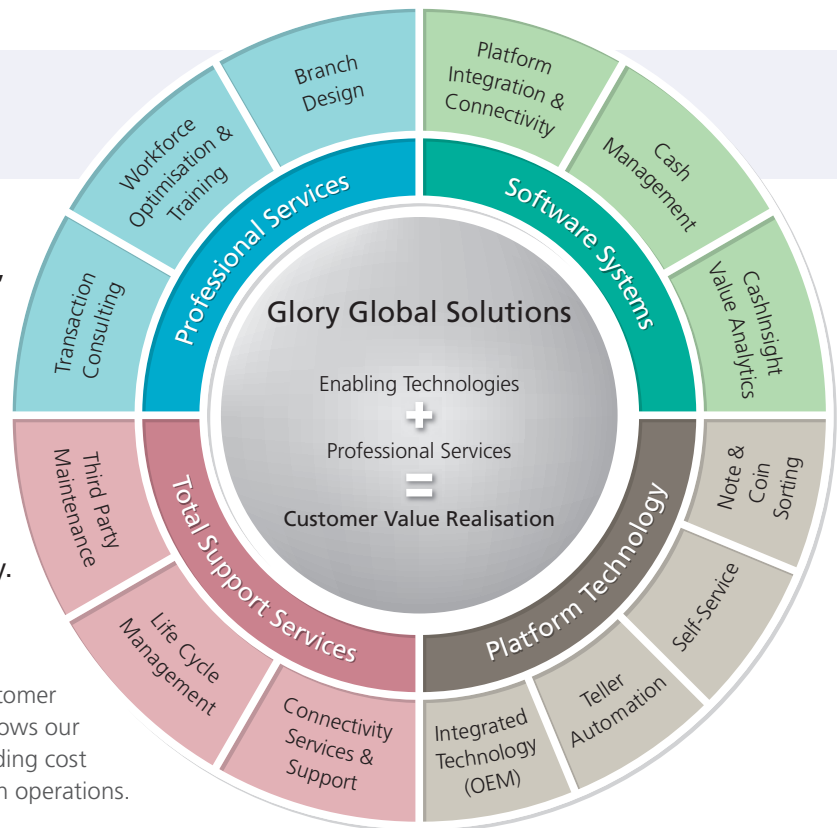
The comprehensive solution

More than just a hardware provider, Glory provides all the capabilities required to successfully design, deploy and deliver the benefits of teller cash recycling. As the pioneers of cash recycling technology, Glory has always strived to meet our customers' demand for reliability and efficiency.

Our unique blend of technical expertise, manufacturing excellence, application and operations consulting, and outstanding customer support, combine in a total solution that allows our customers to reduce cash handling and holding cost and optimise "back office" teller and branch operations.

This in turn allows our clients' teams to focus on their customers, and overall business performance is significantly improved.

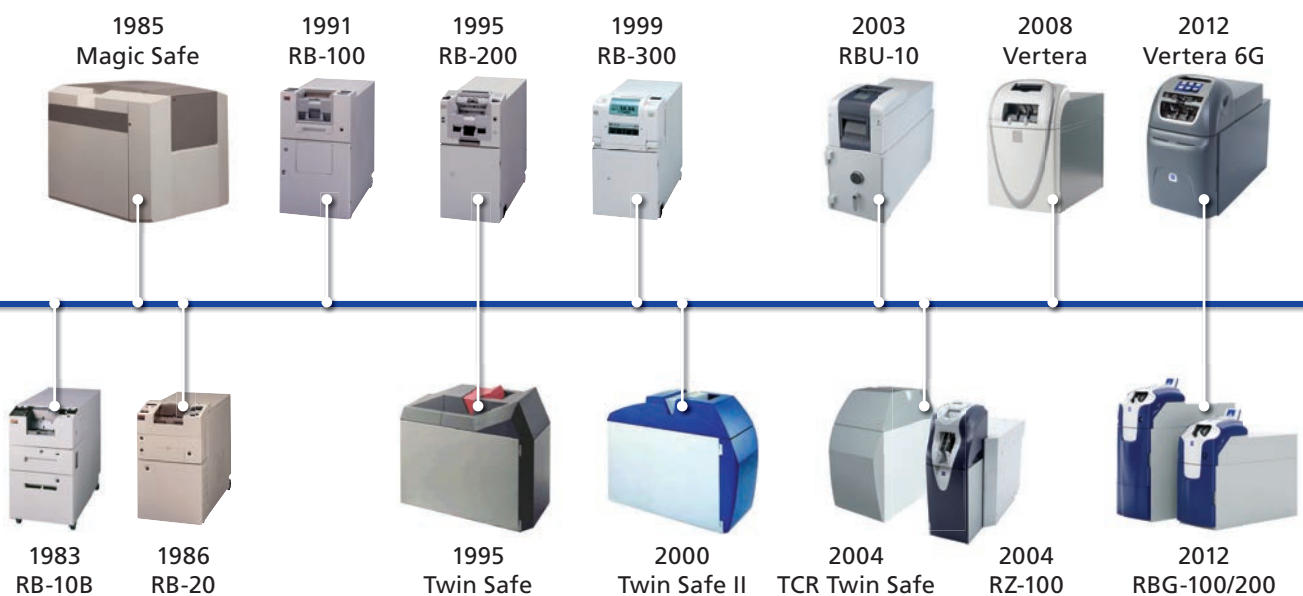
At Glory, we are continually working with our customers to design, develop, and deploy solutions appropriate to both the immediate and future needs of the marketplace. We continually invest in market research, engineering research and development and customer application development. The RBG-200 series is the latest result of these efforts.



A rich heritage of innovation

The RBG-200 series represents the current state-of-the-art in teller cash recycling – performance, reliability, user interface, and total execution, from operating principles through environmental sensitivity at all stages of manufacturing, transport and operation.

The RBG-200 is the latest in a long history of teller cash recyclers from Glory. Over the decades, our solutions have become smaller, faster, more intelligent, more flexible, more connected and ever-more capable of meeting our clients' cash handling needs.

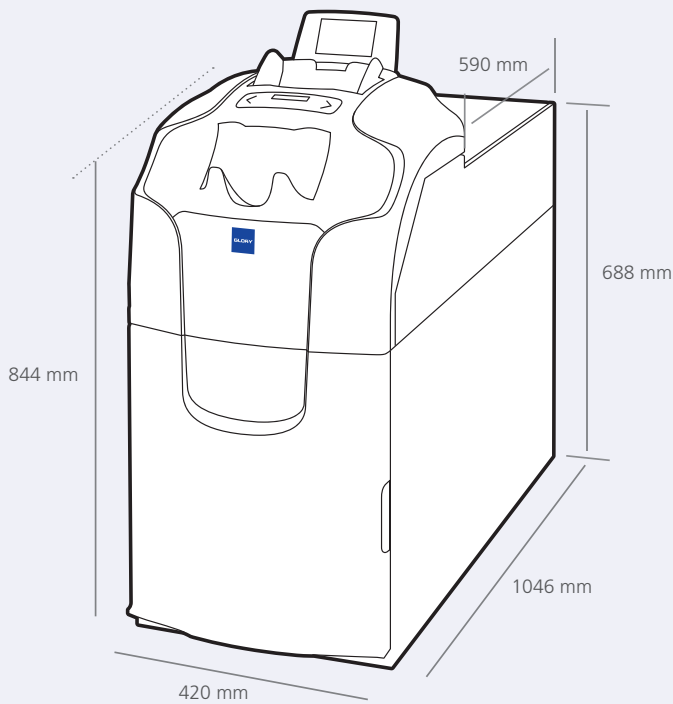


RBG-200 series

Technical information

RBG-200 series –feature comparison

Features	RBG-208	RBG-208I	RBG-208c	RBG-208Ic	RBG-210	RBG-210I
8 RSMs	✓	✓	✓	✓		
10 RSMs					✓	✓
ISM		✓		✓		✓
Collection cassette			✓	✓		



Features	8 or 10 roll storage modules (RSM) 600 notes per RSM Input hopper capacity: Max. 300 notes with continuous feed Output hopper capacity: Max. 150 notes Built-in fitness sorting															
Safe	UL 291 Optional: CEN L, CEN III, CEN IV															
Lock	LaGard 39E Standard															
Alarm	Prepared for alarm integration															
Options	2 additional RSMs or collection cassette Intelligent Storage Module (ISM) Colour touch panel user interface Serial number recognition Alarms															
Speed	Deposit: 7 notes per second Dispense: 6 notes per second															
Power supply	100 – 240 V, 50/60 Hz															
Dimensions and weight	<table border="1"> <thead> <tr> <th>Model</th> <th>Dimensions (H x W x D) mm</th> <th>Weight in kg</th> </tr> </thead> <tbody> <tr> <td>UL291</td> <td>844 (688) x 420 x 1046 (590)</td> <td>340</td> </tr> <tr> <td>CENIII</td> <td>847 (691) x 505 x 1063 (633)</td> <td>480</td> </tr> <tr> <td>CEN/L</td> <td>844 (688) x 420 x 1058 (590)</td> <td>290</td> </tr> <tr> <td>CENIV</td> <td>851 (695) x 505 x 1083 (633)</td> <td>530</td> </tr> </tbody> </table> <p>Numbers in brackets show under-the-table measurements.</p>	Model	Dimensions (H x W x D) mm	Weight in kg	UL291	844 (688) x 420 x 1046 (590)	340	CENIII	847 (691) x 505 x 1063 (633)	480	CEN/L	844 (688) x 420 x 1058 (590)	290	CENIV	851 (695) x 505 x 1083 (633)	530
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This mark indicates the product meets Glory's environmental standards.

*Specifications are subject to change without notice.

*Please read the instruction manual carefully to ensure correct equipment usage.

*All figures, capacities and speeds quoted in this brochure are as tested by GLORY LTD. They may vary depending on usage conditions and are not guaranteed.



The Glory Global Solutions Commitment

Glory Global Solutions is a world expert in cash management delivering technology and service solutions that provide security, productivity and innovation to our customers in more than 100 countries worldwide. These solutions are supported by the technical expertise of Glory Group of Japan, a pioneer in the development and manufacture of money handling machines across the financial, retail, vending, amusement and gaming industries for nearly 100 years.

The company is committed to meeting society's wide ranging needs for accurate, secure financial transactions between individuals and businesses, and between businesses.

As a responsible organisation we maintain a disciplined approach to our corporate governance and operate to the optimum professional and ethical standards in all aspects of our business. Glory Global Solutions strives to be an exemplary employer, and will always seek to provide a fair, safe and productive work environment where all employees can grow and be challenged. Wherever we operate, our objective is to contribute actively to the community and the local environment including consistent environmental responsibility.

Our philosophy, business priorities and everyday practice are summarised in a single commitment:

We Secure the Future.



Glory Global Solutions

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