UW Series Banknote Sorters
High-performance banknote sorters for more efficient cash processing
Cash continues to be the most popular method of payment and settlement in the world, with more banknotes in circulation now than at any time in history. Cash is still the predominant retail payment method, with 8 out of 10 transactions being made in cash*.

Maintaining the flow of cash and the confidence in a nation’s currency are two imperative roles of the central bank. The continued growth of cash in circulation, the proliferation of ATMs in diverse locations and ever-increasing numbers of businesses offering ‘banking’ and cash related services has posed a major challenge for the central bank; how to maintain cash supplies across increasing numbers of dispensing points whilst ensuring that banknote quality is maintained.

Where banknote processing is centralised, the central bank has direct control of the authentication and quality of the currency in circulation; state-of-the-art technology is used to ensure confidence in the currency. The devolution of banknote processing responsibility down to the commercial sector has seen the introduction of new trends in cash cycle management.

Banknote processing, and in particular fitness sorting of banknotes, is increasingly carried out at regional cash centres / Cash-In-Transit (CIT) companies or at bank branch level. In addition, many central banks have introduced formal quality standards that the commercial sector must follow in order to maintain consumer and business confidence in the currency, through strong authentication and banknote quality control processes.

One potential consequence of this new responsibility is the increase of operating costs for the commercial sector. Processing efficiency and cost effective technology is increasingly required by CITs, bank branches and retailers to achieve their goals and responsibilities. As a result, the commercial sector requires equipment that is appropriate in terms of size and cost, flexible configurations to suit changing business requirements; whilst being technologically stable and reliable to ensure correct and consistent levels of authentication and fitness sorting are achieved, to meet central bank standards.

Cash in circulation continues to grow year on year

**Euro-zone**

VALUE OF CASH IN CIRCULATION IN BILLIONS OF EUROS

![Graph showing value of cash in circulation in billions of euros for Euro-zone.](image)

- **2002-2011 CAGR**: 8.5%

**South Africa**

VALUE OF CASH IN CIRCULATION IN BILLIONS OF RAND

![Graph showing value of cash in circulation in billions of rand for South Africa.](image)

- **2002-2011 CAGR**: 10.6%
An unprecedented level of accuracy, security and efficiency

As a world-leading supplier of cash handing solutions, Glory is committed to providing technologically-advanced banknote sorting systems, based on nearly 100 years’ experience in working with over 4,000 cash management organisations from around the globe.

With an installed base of over 10,000 systems worldwide, the Glory UW-series has been developed based on our in-depth knowledge and analysis of banknote handling processes, in order to assist cash processors to improve efficiency and productivity in their cash management operations.

The UW-series has been designed to offer maximum flexibility with true modularity and scalability in order to meet the business and operational requirements of today and the future. With a range of proven banknote sorting technology to meet virtually any application or requirement, Glory can offer your cash handling operations an unprecedented level of accuracy, security and efficiency. With an ever increasing demand for more efficient cash management, the UW-series offers smoother, more efficient and continuous processing of large volumes of banknotes.

**Advanced banknote recognition and authentication**

Banknote handling machines must deliver both high efficiency and a combination of speed and accuracy. Glory’s UW-series offers advanced fitness sorting and authentication sensors, whilst processing at a remarkably high speed of up to 900 banknotes per minute*.

**Continuous, large-volume processing**

The UW-series offers best in class banknote processing, with each stacker holding up to 500 banknotes and the option to have from 4 up to 16 stackers in the system. This significantly increases efficiency and speed while continuously processing a large volume of banknotes, reducing the frequency of stopping and starting a sorting operation.

**Efficient and reliable feeding of notes, even those of poorer quality**

The UW-series’ large-capacity hopper holds 1,000 banknotes, and with the Assisted Feeding Mechanism the hopper can reliably feed one note at a time to prevent jamming or high rejects due to double feeding. Providing efficient and reliable banknote sorting, its open-style hopper provides excellent visibility of the banknote feeding process to the user, so more notes can be added in continuous large-volume deposits.
Higher processing efficiency and multiple sorting capabilities

The UW-series offers a range of stacker options; from 4 on the UW-500 to 16 on the UW-800. This allows a diverse range of sorting and arrangement patterns to be performed in fewer steps, reducing the need to re-sort banknotes in a second pass.

- **Denomination sorting** – mixed banknotes are counted as received and sorted into the corresponding denomination assigned stackers. The notes can be quickly sorted, hand strapped and processed, significantly reducing labour time.
- **Fitness sorting** – the UW’s fitness sorting function is effective in reducing damaged banknote reissue and ATM downtime. Accurate fit/unfit sorting improves productivity with much greater speed than manual sorting.
- **Orientation sorting** – banknotes already sorted in different denominations and/or in mixed denominations can be oriented face up/down and portrait up/down.
- **Batching arrangement** – the UW’s batch function is efficient for fast banknote bundling. The default batch setting is 100 banknotes. The numeric keypad can also be used to manually set the batch capacity up to 500 banknotes of each denomination.

Non-stop operation

Two enlarged reject stackers greatly improve the UW’s “Non-Stop Operation” and allow suspected counterfeits to be diverted to a dedicated reject stacker, saving time when reconciling deposits. This reduces the amount of work normally required for sorting rejected banknotes.

User-friendly operation

The UW-series is designed to offer optimal ergonomics with simple user operation. The interface display features two side-by-side LCDs, one for displaying data and messages and the other for use as an illustrated system guide; the wide display screens also substantially improve visibility. The display section shows the total amount and number of banknotes by denomination and the total processing data. In the event of an error, the display indicates a description of how to reset the system.

Quick error recovery and minimal processing interruptions

The UW-series features a fully opening top that allows easy maintenance of the banknote transport section. Should banknotes or foreign objects jam in the counting or transport section, the wide-opening upper section of the main unit makes it easy to find and remove the jammed notes or foreign object. A dust tray is also provided for easy removal of accumulated dust.
A family to suit all banknote processing needs

The UW-series offers a choice of 4 configurations to suit virtually any banknote processing requirement.

**UW-700**
Designed for larger commercial banknote sorting operations, where efficiency of sorting in a single pass is essential, the UW-700 offers 12 output pockets and is therefore able to offer more flexible sorting arrangements.

**UW-600**
The UW-600 offers 8 output stackers, ideal for multiple denomination sorting, where fitness and facing is not necessary or where a second pass can be used to perform additional sorting activities, or when banknotes are pre-sorted to some degree (e.g., fitness).

**UW-500**
The UW-500 offers 4 output stackers, ideal for smaller sorting operations where only one or two sorting operations are required, such as fit/unfit, face up/facedown.
**UW-series Technical Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Counting speed</td>
<td>Up to 900 notes per minute*</td>
</tr>
<tr>
<td>Hopper capacity</td>
<td>Approx. 1,000 notes</td>
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<tr>
<td>Reject stacker capacity</td>
<td>Approx. 150 notes x 2</td>
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<tr>
<td>Power supply</td>
<td>100–240 V ±10%, 50/60 Hz</td>
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<tr>
<td>External connection</td>
<td>RS232 serial interface, PS2 numeric keypad interface</td>
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**UW-800**

The UW-800 enables the option to add a further 4 output stackers, bringing the total output to 16 stackers, ideal for extensive banknote sorting applications where all banknotes need to be sorted by denomination for fitness, facing/orientation and authentication; all in as few steps as possible with minimal processing interruptions.

**UW-500**

Stackers: Approx. 500 notes x 4
Weight: 80 kg
Dimensions: 600 (W) x 445 (D) x 600 (H) mm

**UW-600**

Stackers: Approx. 500 notes x 8
Weight: 120 kg
Dimensions: 1200 (W) x 445 (D) x 600 (H) mm

**UW-700**

Stackers: Approx. 500 notes x 12
Weight: 160 kg
Dimensions: 1800 (W) x 445 (D) x 600 (H) mm

**UW-800**

Stackers: Approx. 500 notes x 16
Weight: 200 kg
Dimensions: 2400 (W) x 445 (D) x 600 (H) mm

Specifications are subject to change without notice. Please read the instruction manual carefully to ensure correct equipment usage.

*Speed may vary by region.
Maximum speed in USA/Canada is 720 notes per minute.
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.