

REDUCE, RE-USE, RECYCLER

Bank note recycling has become a buzzword amongst validation companies with a shift in the street market towards versatile devices that can pay-back notes and avoid the dreaded starvation

In a world where gaming has been negatively affected by the economic and financial crisis (really for the first time in many parts of the world), adversely, the demand for a larger, more expensive gaming machine component continues to rise. The market for banknote recycling is still very much in the youthful period of its product life cycle, however, banknote recyclers are finding their way into more and more gaming machines. Furthermore, they are providing manufacturers of change machines with a new alternative. At the same time, market opportunities continue to arise for these versatile devices. In this report we will look at market, its growth, the reasons behind this success and new potential markets. We look also at the different products on offer, their features and benefits.

The gaming market is making ever greater use of cashless, but why are operators investing in banknote recycling? Taking a look at the European Central Bank's website shows the statistics of how many euro notes are in circulation. In October 2006 it was at 10.6 billion. Five years on, in October 2011, this number had risen to 14.4 billion (at a total value of 864 billion euros) – a rise of 3.8 billion euro notes in circulation. Even taking into account the new countries that have joined the euro during this period, the fact remains that cash is the most popular transaction payment method across the continent.

It is fair to say that banknote recycling has been waiting in the wings ever since banknote readers were introduced into gaming machines. Operators predicably expect a rise in revenues when introducing banknote readers into gaming machines. The uplift is stated as between five and 20 per cent depending on the market and country. The adage that players want to remain anonymous appears true in a change sense too, as they also do not want other people seeing them changing money after a particularly unsuccessful run.

This anonymity can also be applied to the successful rise of ticket-in, ticket-out in casino and VLT gaming. Smartcard cashless gaming may compete on a level playing field with ticket-in ticket-out in regards to simplicity of use and low cost operation, but players who shy away from the requirement to register themselves within the system, will ultimately fall through the net. This isn't just anecdotal analysis either. Countries where smartcard cashless systems have been installed in casinos, and which previously heralded them as a success, are now investing millions to offer ticket-in, ticket-out (South Africa and the Netherlands). Ultimately it's the player that decides how they want to play.

In a world of increasing jackpot inflation and new opportunities to pay out higher

Taking a look at the European Central Bank's website shows the statistics of how many euro notes are in circulation. In October 2006 it was at 10.6 billion. Five years on, in October 2011, this number had risen to 14.4 billion (at a total value of 864 billion euros) – a rise of 3.8 billion euro notes in circulation.

BANKNOTE RECYCLING HAS BEEN WAITING IN THE WINGS EVER SINCE THE FIRST BANKNOTE READER.

wins, the banknote recycler is finding its niche. Just like receiving a handful of coins at a parking machine at the airport, having a win paid out in coins is not always well received. It was often said that players want to see and hear the jingle of coins, but the success of ticket-in, ticket-out has put pay to that belief,



even if some manufacturers include a sound-effect coin jingle when a ticket is paid out. The same applies to banknotes. Players are stated as wanting to be rewarded with their win immediately – not to receive a bunch of coins that they have to change at the change machine or have the coins changed by a member of the arcade staff. Thus convenience and player preference play a major role in choosing a banknote recycler. It is too early to have ascertained concrete information on how fitting a banknote recycler positively affects revenue – some operators state that the positive affect only lasts a short time during its novelty stage for players. A banknote recycler per se is not going to attract a player. It is the games that continue to be decisive. The question is when a complete gaming park

Banknote recyclers restore the natural cash flow. Notes going in can be paid out. Three major benefits arise from this – players get money back both in notes and coins and secondly operators no longer have to have so much capital in their gaming machines

/gaming arcade is equipped with a banknote recycler – how is revenue then affected? The job of the operator is to keep his customer happy – and having a win paid out directly from the gaming machine in banknotes plays a positive role without a doubt.

Player preference remains the main reason for the rising market for banknote recyclers. Even though we may not be in a position to be able to measure the positive affect on revenue right now, it has proved yet another factor of vital importance in maintaining the revenue stream. This refers to uptime/downtime.

The notion of more uptime/less downtime basically means that the gaming machine remains on and



Kai Bonger
International Sales Manager
MERKUR GAMING

The market for banknote recycling has grown quickly due to customer /player acceptance. People want to receive their cash/winnings in notes. This increases not only machine acceptance, but also machine performance. Machines fitted with a banknote recycler are better accepted and are thus used more, which then increases machine turnover. It is the future to help to enable operators to continue to react to cost pressures positively and increase their machine reliability. The Merkur Dispenser 100 is ideal for the European market as it fulfils all the expectations of a banknote recycler. It has set the benchmark for the banknote recycling. The Merkur Dispenser 100 has been in the market for over five years now so has proven performance.

functioning for longer. There are two factors behind this. The first has to do with coin starvation. In the days before banknote readers, players could only generally play with coins (or tokens) and receive their winnings in coins (or tokens). Thus, these coins or tokens could be recycled in the gaming machine – the coins that entered through the coin validator invariably passed into coin hoppers for pay out. This natural coin flow was interrupted by the banknote reader. More and more notes paid in meant less and less coins going in to be recycled/paid out. Thus, the demand for more coins in the hoppers led the market to look for larger hoppers or hoppers with larger capacities. This only served to slow the rate of downtime. However, the amount of money or ‘dormant capital’ in the gaming machines rose.

Entrepreneurs want to put their money to use. They don’t want it sitting in gaming machines, though they still need to ensure that a maximum payout can be paid. Banknote recyclers restore the natural cash flow. Notes going in can be paid out. Three major benefits arise from this – players get money back both in notes and coins and secondly operators no longer need so much capital tied up within their gaming machines, so the

Analysis

BANKNOTE RECYCLING

machine float can be reduced. The third benefit is increased machine uptime. Machines need to be refilled less so are ready for play longer.

The second technical factor for added machine uptime and more satisfied players is the fact that coins have always been a source of technical challenge. This means that a high rate of machine downtime has had to do with the coins – for example caused by coin jams. The fewer coins in the gaming machine means the less chance they can cause a jam, leading to machine downtime.

The right application

Different market segments in gaming have differing stake and win levels. The payout level varies and with that the requirement to pay out notes changes too. In certain countries it is adequate to pay out notes in a single denomination – such as in the Spanish AWP market. The German AWP market has a higher win payout potential, which means that banknote recyclers need a greater capacity. A better solution is to pay out in several denominations, so that operators can offer players the possibility to receive their winnings in mixed denominations.

This requirement for a range of banknote recycling solutions is being aptly solved by the manufacturers. The range continues to grow and it is not an understatement to say that at every major gaming show in the past two years there has been yet another solution for banknote recycling entering the market. This will no doubt be repeated at the major January exhibitions in Düsseldorf (IMA) and London (ICE) where several manufacturers will launch their latest solutions.

The banknote recycling capacity ranges today between 10 and 300. The lower numbers are for the lower payout rates such as in Spain. The larger ones can be found in markets like the German AWP sector. No doubt further AWP markets in different countries will embrace this technology as the signs are for strong growth in this sector (which mirrors the amount of research and development is being invested into this solution).

The number of various banknote denominations that can be paid back generally ranges between 1 and 4 at present. Some manufacturers can pay back every note inserted so the denomination number in the recycler depends on the various denominations entered into the machine. The major factor is the combination of the number of banknotes that can be recycled with the number of denominations available for recycling.



THERE IS NO RULE THAT BANKNOTE RECYCLERS CANNOT BE FITTED IN VLTS & CASINO SLOTS.

The best machine fit

The AWP sector has been the major focus for banknote recycling thus far. A variety of legislative factors have played their part, with multiple jurisdictions dictating that AWP's can only be played with cash – i.e. coins and notes – which, as explained, provides an ideal environment for banknote recycling. In Europe to date, the demand for banknote recyclers in AWP's has been most prevalent in the UK, Germany and Spain.

There is no rule that banknote recyclers cannot be fitted in VLTS and casino slots. Banknote recycling should not be seen as a bridge technology that fills a gap until smartcard or ticket-in, ticket-out is allowed. Smartcard and TITO are gaining an ever-stronger foothold in the VLT and casino slot markets. For larger wins, cashless seems the clear favourite. The question is whether banknote recyclers can offer a solution for smaller wins. In

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James Boje
Vice President –
EMEA Retail and Gaming
MEI

MEI, the world leader in automated payment systems, has earned a reputation of exceeding performance expectations. That is also true of our recycling portfolio. An increasing portfolio of recycling solutions – featuring the VNR (vending note recycler), BNR (bank note recycler) and concepts for additional products soon to be introduced into the market – allows MEI to provide solutions that offer the industry's best value. Recycling products represent another example of our ongoing commitment to improve operator profitability by contributing to cash management enhancements.

the Italian VLT market for example – when a player wins he must validate his ticket with the cashier. It must be validated on a ticket scanner from a change machine manufacturer and then paid out by the change machine (should the operator prefer payment through the VLT change machine). Paying out directly in banknotes by the VLT is seen, however as being more 'player friendly.' Thus, in smaller casinos where hand pays are more common, the market for banknote recyclers has the potential for growth.

Banknote recyclers may appear in VLTS in smaller arcades/casinos. However, in larger premises where TITO is used, there is general agreement that the demand for a banknote recycler should be very low. Operators want to keep cash in the cage and not have to place extra money in the slot machines above what is necessary for the float. Wins are paid out by a ticket that is then redeemed at the cage or a cash redemption machine.

Gaming machines come in all shapes and sizes and consequently so do banknote recyclers. Operators can choose from a whole range of solutions and prices, with cost playing an increasingly important role. As the market for banknote recyclers grows and competition increases, prices should fall. In such a case an operator may feel more favourable to fitting a banknote recycler instead of a reader.



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Gastronomic delights

The reasons for fitting a banknote recycler in a pub/restaurant are most pressing. In the majority of cases the operator has a range of gaming machines at different locations in operation. They could be many kilometres apart from each other. The barkeeper may not have the keys to the gaming machine. If it goes down, then revenue grinds to a stop. It is as simple as that. The time for the operator/technician to get to the machine is lost revenue-generating time. The increased uptime of gaming machines in this sector generated by fitting a banknote recycler has created a must-fit scenario in the German pub and restaurant sector.

The reasons for fitting banknote recyclers in gaming machines in arcades are not so compelling, yet nevertheless strong. Arcade personnel are on hand to offer change and often players have access to change machines. Some operators even turn off the banknote readers to prevent coin starvation and cut off a potential source of manipulation. Yet this goes against the notion that the player should choose – that the player should be offered all potential ways to put money in the gaming machine and win it back again. As a result, the arcade sector has yet to embrace banknote recyclers as emphatically as the pub sector. It remains to be seen how this sector will develop. Again, where the necessity is lower, then competitive pricing again could play a stronger role.

New opportunities for change

Traditionally change machines have been used as the staple means by which to change notes into coins. The focus has been on the coin requirement – resulting in ever larger machines that allow players to place a coin cup in the machine to receive a large amount of coins in change. It stands to reason that the more players prefer notes (or tickets) to play, the less they will need coins. Thus, the market for ‘bill breakers’ has arisen in recent years – this means the possibility of changing high value notes into lower value notes.

The market for note dispensers has also grown in recent years. However, this non-recycling system means that they have to be manually refilled when they are empty – leading again to downtime. This is important to change machines as well – as a player who cannot change their money may decide not play at all. The answer is to fit a banknote recycler either alongside banknote dispensers or instead of banknote dispensers. Here capacity and the number of note denominations play a key role. The amount of times such banknote recyclers are used is generally a factor higher than those found in gaming machines. The requirements of banknote



recyclers are higher as is their expected level of quality. This has led to the fact that the price of banknote recyclers can often represent up to 50 per cent of the complete sales price of change machines.

Outside of the gaming world

Wherever there are automatic payment machines there is a potential market for banknote recyclers. Ticketing and parking machines are ideal examples as operators see more the advantage of fitting such products. There is a return on investment for these more expensive units – machine uptime, reduced float rate and naturally increased customer satisfaction. Vending machines are offering more and more varied products. Nowadays high-value goods can often be bought from vending machines, particularly at locations that are well frequented, such as at railway stations and airports. The retail market is without doubt the major growth opportunity for such products. POS (point of sale) machines in supermarkets and retail stores continue to grow. In some countries such POS machines have yet to be socially accepted. We believe it's just a matter of time. Think back to airport check-in machines. It is only a few years ago that there were introduced and at first largely ignored by passengers. However, once passengers were shown how to use them, the benefits became clear. Today, they dominate most international airports around the world.

Manufacturers of banknote reading/accepting/dispensing/recycling technology today, are no longer just suppliers. They play a key role in the return on investment model for gaming machines. Both the player and technical advantages are so high that these units pay for themselves within a space of time that continues to reduce. This is why the market continues to demand high-value, high-cost units. Naturally cost plays an important role in the lower section of the market.



Stephan Rosseneu
Director of European Sales
CRANE PAYMENT SOLUTIONS

Success in the banknote recycler market is just one factor which has helped make 2011 a success for Crane Payment Solutions. As one integrated company with four core brands we can offer an enhanced product range to meet customer needs. We've found that the first step in any market is getting a bill validator with a high acceptance rate – to increase cashbox take and user satisfaction. The market is fast moving and we ensure we keep on top of key trends and changes – so for instance the introduction in Greece of licenses for VLT machines will provide a market for Crane Payment Solutions' bill acceptors.

Gaming manufacturers can learn from these markets in the way the banknote recyclers are operated. These products offer a host of security features that can only be taken advantage of by investing in the correct protocols. It can therefore be envisaged that gaming machine manufacturers will need to invest more to ensure that their protocols make the best use of such products.

A critical component

Manufacturers of banknote reading/accepting/dispensing/recycling technology today, are no longer just suppliers. They play a key role in the return on investment model for gaming machines. Both the player and technical advantages are so high that these units pay for themselves within a space of time that continues to reduce. This is why the market continues to demand high-value, high-cost units. Naturally cost plays an important role in the lower section of the market; understand its reputation for quality and make a decision based on these factors.

Taking this need into account, we have put together an overview of the banknote recyclers currently available in the market.

Analysis

BANKNOTE RECYCLING



Marcus Tiedt
Sales Director

INNOVATIVE TECHNOLOGY

The SMART Payout is the first multi-denomination recycler able to pay out a mix of all notes previously accepted by the note validator. The unit is equipped with a secure stacker for 500 or 1000 notes and can recycle 80 bills. It's designed for high volume applications like gaming, sports betting, VLT's, change machines, kiosks and ticketing. For lower volume machines we offer the NV11 with cashboxes for 300 or 600 notes and a recycler for 30 notes of one single denomination. Typical applications are AWP and vending type machines. Both units help to cut down the costs of handling cash. This can be achieved by setting individual floating levels (resulting in less re-fills), using flexible payout strategies, SMART empty functions and more secure interfaces.

Recyclers on the market

Nearly all the major manufacturers of banknote readers now offer banknote recyclers – often various solutions. In this report we present the solutions from (in alphabetical order) Azkoyen, Crane, ICT, Innovative Technology, JCM, MEI and Merkur Gaming.

AZKOYEN - BILLHOPPER

OVERVIEW

The Billhopper has been developed in collaboration with the main manufacturers and operators in order to offer the most convenient solution according to market needs. It has the real advantage that the banknote recycler not only accepts a wide range of denominations, but also it allows the machine to decide which banknote that will be paid next. It manages many denominations (5 €, 10 €, 20 € and 50 €). Its DSP digital technology used to validate banknotes ensures the highest level of security, having successfully passed the requirements set by the Eurosystem in the detection of counterfeits.

- Recycles and stores up to 10 banknotes with different denominations
- Individual management of each of the 10 independent cavities



BillHopper, Azkoyen



Bill-To-Bill 60, Crane Payment Solutions



Bill-To-Bill 300, Crane Payment Solutions



BR1500, ICT



NV11, Innovative Technology



SMART Payout, Innovative Technology

- Extremely compact design. It fits in almost every slot machine cabinet
- Robust and easy to maintain, with access to all internal components
- Entry specially designed to avoid mechanical deviations in the door
- The Billhopper can be retrofitted to an existing Billsensor (banknote reader)

FEATURES

Mechanical Characteristics

- Width 83,5 mm
- Length 159 mm
- Recycler capacity – 10 notes
- Banknote insertion 4 ways
- Number of denominations - multi
- Escrow 1 banknote
- Weight 2.5 kg

CRANE PAYMENT SOLUTIONS - CASHCODE BILL-TO-BILL 60

OVERVIEW

The Bill-to-Bill 60 is the compact banknote recycling unit from Crane Payment Solutions. Its design allows it to be fitted even in smaller wall-mounted gaming machines. For the euro it is generally set to accept between 5 and 50 euros. It has a two-digit external display to indicate the note count to operators. Furthermore, quick and simple configuration changes or firmware updates are via a BlueChip sim card.

FEATURES

- Dimensions – 110mm x 456mm x 110mm
- Recycler capacity – 60 notes
- Banknote insertion 4 ways
- Number of denominations – 1
- Ticket barcode acceptance - yes
- Escrow 1 banknote
- Weight 3.3 kg
- Interface – CCNET

CRANE PAYMENT SOLUTIONS - CASHCODE BILL-TO-BILL 300

OVERVIEW

The Bill-to-Bill 300 can recycle up to 300 notes of three different denominations – 100 of each. It can pay the notes back in a bundle of up to 20 notes at a note. The note entry bezel is metallic and tamper-proof.

FEATURES

- Dimensions – 163mm x 569mm x 378mm
- Recycler capacity – 300 notes
- Banknote insertion 4 ways
- Number of denominations – 3
- Note width acceptance – up to 82 mm
- Escrow multi bill programmable
- Weight less than 15 kg
- Interface – RS232, USB

ICT - BR1500

OVERVIEW

The BR1500 bill recycler is equipped with a large capacity recycling unit and cashbox. Its multi-note escrow is a speciality.

FEATURES



Payam Zadeh
Sales Director EMEA
JCM GLOBAL

At JCM we listen to our customers. Customer requirements define our products and so we are able to provide the right solution for the right market segment. Our goal is to give our customers the solutions they require. This defines the way we work. We are moving more to providing complete solutions such as banknote reading / recycling technology with printing technology. Even though the UBARC was only launched in 2011, we have already implemented an often-stated customer wish to make the process of accepting and recycling banknotes even quicker. The result is a brand new product – the iProRC – that we will be officially launching in January 2012.

- Dimensions: 305mm x 275mm x 100mm
- Cashbox capacity – 300 notes
- Recycler capacity – 50 notes
- Note width acceptance – 62 – 77 mm
- 4-way banknote insertion
- Escrow up to 5 notes
- Weight 2.9 kg
- Interface – ccTalk, RS232

INNOVATIVE TECHNOLOGY - NV11

OVERVIEW

The NV11 combines an NV9 USB bank note validator with a Note Float payout unit. The NV11 can be used in any AWP's to keep machines running. The Note Float can store up to 30 notes of a single denomination and is self-floating. The desired note value is stored within the Note Float and any other values travel straight to the cashbox. To assist when emptying, all notes in the Note Float can be transferred to the cashbox for easy collection. The NV11 has been designed for AWP and vending segments.

FEATURES

- Dimensions: 246mm x 222mm x 104mm
- Cashbox capacity – 300 or 600 notes
- Recycler capacity – 30 notes
- Number of denominations - single
- Banknote insertion 4 ways
- Weight 2.2 kg
- Interface – USB capable, eSSP (encrypted SSP) and ccTalk

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INNOVATIVE TECHNOLOGY - SMART PAYOUT

OVERVIEW

The SMART Payout is a modular add-on for the NV200 bill validator. The Payout unit has a storage capacity of 80 mixed value notes and is self-floating to minimise re-fills. Desired note values are stored within the SMART Payout and any other values travel straight to the NV200 secure cashbox. To assist when emptying, all notes in the SMART Payout can be transferred to the NV200 cashbox for easy collection. Notes are dispensed (and accepted) quickly through the NV200's front illuminated bezel. The SMART Payout was designed for large volume applications like in gaming, retail, kiosk, change and ticketing.

FEATURES

- Dimensions: 114 x 362 x 298mm
- Cashbox capacity - 500 or 1000 notes
- Recycler capacity - 80 notes
- Number of denominations - multi
- Note width acceptance - up to 85mm
- Banknote insertion 4 ways
- Ticket barcode acceptance - yes
- Weight 5.5 kg
- Interface - USB, eSSP

JCM - VEGA-RC

OVERVIEW

- 30-note variable denomination recycler
- High-precision sensor technology
- Lockable, removable cashbox
- Combination of optical sensors and flapper mechanism
- Software upgrade via USB port
- 300 and 1,000 note cash box options
- 2-digit 7 segment display

FEATURES

- Dimensions: 113 x 285 x 222mm
- Cashbox capacity - 300 or 1000 notes
- Recycler capacity - 30 notes
- Number of denominations - 1
- Note width acceptance - up to 82mm
- Escrow up to 5 notes
- Banknote insertion 4 ways
- Weight 1.05 kg
- Interface - ID-003, Photocoupler, RS232, ccTalk, MDB

JCM - UBA-RC

OVERVIEW

The UBA-RC is based on the UBA banknote reader. The recycling chamber allows for the recycling of two banknote denominations. Each chamber has a capacity of 100 notes - so a total of 200 notes can be recycled. Easy access to these two chambers provides for simple manual reloading or note removal. There are two cashbox options - 400 or 1000 notes. The UBA-RC has Roller Friction Recycling Technology for direct bulk note refill into recycling chamber which enables optimum uptime. The anti-pull-back drum technology is designed to provide protection against stringing. Excellent sensor technology for very high

note acceptance and counterfeit rejection is a major feature of this product.

FEATURES

- Cashbox capacity - 400 or 1000 notes
- Recycler capacity - 200 notes (2 chambers at 100 notes each)
- Number of denominations - 2
- Note width acceptance - up to 85mm
- Ticket barcode acceptance - yes
- Banknote insertion 4 ways
- Interface - ID-003, Photocoupler isolation, RS232C

JCM - iPro-RC

JCM is introducing its new latest banknote recycler to the market in January 2012. The iPRO-RC will be the successor of the UBA-RC, with faster banknote accept rate and better sensor technology. Furthermore it supports both the JCM ID-003 and ccTalk protocols.

MEI - BNR (Bank Note Recycler)

OVERVIEW

The MEI BNR is a proven product. Its design - featuring a cashbox, loader and 4-denomination recycling - provide the necessary capacity to improve uptime while meeting daily cash dispensing requirements. The BNR is unique thanks to its loader feature. A banknote recycler can only give back the notes it was pre-loaded with and what is entered into it by players / customers. If higher value notes are entered more than lower value notes but the lower value notes are paid back more - then this will ultimately lead to note starvation of these lower-value notes. This is where the Loader comes into play. It provides space for over 250 notes (usually lower-value notes). This maintains machine uptime. The unit itself can pay notes back at in a bundle of up to 15.

FEATURES

- Cashbox capacity - 600 notes
- Recycler capacity - 30 notes
- Loader capacity - 250 notes
- Number of denominations - 4
- Note width acceptance - up to 83mm
- Ticket barcode acceptance - yes
- Escrow up to 5 notes
- Ticket barcode acceptance - yes
- Banknote insertion - 4 ways
- Interface - USB
- Weight 23.6 kg

MEI - VNR (Vending Note Recycler)

OVERVIEW

The VNR is the vending note recycler from MEI. It has a smaller footprint and can recycle up to 30 notes in one single denomination. This product is very successful in the US vending industry.

FEATURES

- Recycler capacity - 180 notes
- Number of denominations - 1
- Banknote insertion - 4 ways
- Interface - MDB



Vega-RC,
JCM Global



UBA-RC,
JCM Global



iPro-RC, JCM Global



BNR (Bank Note
Recycler), MEI



VNR (Vending Note
Recycler), MEI



Merkur Dispenser
100, Merkur Gaming



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Marketing Director

AZKOYEN PAYMENT TECHNOLOGIES

Payment systems are becoming more and more important as a component inside the machine. End user satisfaction is a must for manufacturers; therefore they require effective cash handling devices that greatly contribute to improve the machine performance. The latest Azkoyen projects launched to the market provide significant advantages not only to the operator, as they reduce their costs by using the most reliable products, but also to the end users, better machine performance guarantees more satisfaction to them. Azkoyen's new developments have been designed to ensure the highest level of security against counterfeits as well as to optimise the cashflow within the machine. The Billhopper is a perfect example of these premises: it has been homologated by the ECB certifying it meets the requirements about counterfeit detection, as well as optimizes the cash flow by using an intelligent processor to pay out prices with several banknotes denominations (up to 10).

MERKUR GAMING - MERKUR DISPENSER 100

OVERVIEW

The Merkur Dispenser 100 was one of the very first banknote recyclers to be introduced to the market. Merkur Gaming can cite market successes all over Europe. It is made up of a banknote recycler, cashbox and dispenser unit. The dispenser unit has three drums inside which has a capacity of 34 each. In other words, the Merkur Dispenser 100 can recycle 102 banknotes of up to three different denominations.

FEATURES

- Dimensions: 114mm x 455mm x 255mm
- Cashbox capacity - 400 or 600 notes
- Recycler capacity - 102 notes
- Number of denominations - 3
- Note width acceptance - all Euro notes
- Ticket barcode acceptance - yes
- Ticket barcode acceptance - yes
- Banknote insertion 4 ways
- Interface - MDB or ccTalk
- Weight 5.9 kg