

# Transforming your Cash Handling Operations





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# SUZOHAPP

SUZOHAPP is a technology company providing software and hardware for cash handling automation and self-service solutions to more than 25,000 customers throughout the world. SUZOHAPP's technology enables automation for customers operating in a variety of end markets including retail, transportation, gaming, banking, vending and amusement. SUZOHAPP's solutions include cash deposit, recycling, processing and payment systems as well as a broad range of self-service component technologies. SUZOHAPP's more than 1,100 employees operate in 19 countries and dealer network covers more than 100 countries. The brands of SCAN COIN, Comestero, Coinco and CashComplete™ are united under the SUZOHAPP Company.

SUZOHAPP's mission is to provide its customers with excellent service and high quality components, solutions, and software that create significant value for their business. The company vision is to become the global market leader by being true to its core value of growth through the investment in people and innovation and so providing market-leading solutions for all the customers in all the markets throughout the world.

SUZOHAPP is owned by affiliates of ACON Investments, L.L.C., a Washington, D.C.- based international private equity investment firm that has responsibility for managing approximately \$5.5 billion of capital.



 **35 FACILITIES**  
**19 COUNTRIES**

 **1,100+**  
**EMPLOYEES**

 **115 ENGINEERS**

 **50,000+**  
**PRODUCTS**

 **5,000+ SOLUTIONS**  
**6M+ DEVICES**

 **25,000+**  
**CUSTOMERS**

# Components

# Evolution Hopper

## High Dispensing Speed and Reliability

Based on a belt drive, Evolution Hopper is the result of an entirely new design, which represents a decisive improvement, in terms of both performance and ease of maintenance. The combination of extremely wear-resistant plastic resins with state of the art electronics has produced a device with low purchase and management costs. This type of hopper can be used for 95% of coins and tokens worldwide, without needing adjustments. Evolution Hopper is completely interchangeable with the other models available on the market. Suitable for many applications: Vending, Parking, Retail, Amusement.

## Highlights

- Board easily accessible from outside and extractible for facilitating maintenance
- DC motor, driven by an electronic actuator, which reduces friction and noise
- Equipped with a built-in agitator to prevent coin jams, as well as with additional electronic anti-jam electronics
- The standard version can be easily transformed into the adjoining version by simply removing the cover, which is fastened by two screws, and moving the connector to the new position
- Interfaces: standard, parallel or ccTalk serial.  
The latter guarantees excellent security and diagnostics management
- High quality materials for long trouble free operations



## Functions

- DC motor
- Double installation option: adjoining and standard
- Minimal maintenance
- Reduced noise
- Anti-jam electronics



Standard connector



Payout sensor easily accessible for maintenance

## Technical Specifications

Size (L x H x W)	126 x 286 x 226 mm
Weight	2,5 Kg
Power supply	20 ÷ 24 Vdc ± 10 %
Current consumption	40 mA in stand-by - 2.5A during dispensing
Power consumption	0.8 W in stand-by - 50 W during dispensing
Operating temperature	0 °C ÷ 60 °C - relative humidity 5 ÷ 95%
Coins accepted	Ø 16 ÷ 30 mm - thickness 1.25 - 3.5 mm
Payout speed	4 - 5 coins per second

Coin Capacity 1 €

Capacity 1,500



Board easily extractible from the outside

# Flow Hopper

## Innovative through Hole Hopper

Through hole hopper, suitable for various uses such as gaming, vending, parking and change machines. The innovative electronics and high resistance plastic materials ensure durability over time. Available in two versions: standard parallel and ccTalk.

### Highlights

- Compatible with the other hoppers already on the market
- High payout speed of about 7 coins per second
- Available with three different coin bowls: medium, intermediate, large
- Reliable through hole coin disk design - no external wires run for level sensors
- Integrated fall tube for simple dual hopper cabinet construction
- ccTalk version available in encrypted and non-encrypted mode
- Parallel interface and 10 pin connector
- 12-24V power supply
- Low level sensor and anti-jam feature



### Optional accessories

- 8 coin payout discs for combinations from 15.5 to 32 mm with thickness from 1.6 to 3.2 mm



Payout area



Security clip

### Technical Specifications

Size (LxHxD)	127 x 155 x 154 mm (with medium coin bowl)	127 x 155 x 189 mm (with intermediate coin bowl)	127 x 155 x 228 mm (with large coin bowl)
Weight	757 g		
Power supply	12 ÷ 24 Vdc (min. 11 – max 26)		
Current consumption	30 mA in stand by 2.2 A (typical); 5 A (maximum) at motor start-up 0.5 A @ 12 Volt (typical); 0.6 A @ 24 Volt (typical); 0.9 A (maximum) during dispensing		
Operating temperature	0°C ÷ 50°C - Relative humidity: 10% ÷ 75%		
Coins accepted	Ø 15.5 ÷ 32 mm – thickness 1.6 - 3.2 mm		
Payout speed	7 coins per second		
Connection	10 pole connector (2x5 pitch 2.5mm) such as Molex series 8624 or similar		

### Coin Capacity

	1 € (with medium coin bowl)	1 € (with intermediate coin bowl)	1 € (with large coin bowl)
Capacity	375	546	747



# Cube MK11 Hopper

## The Ideal Coin or Token Dispensing Unit

Suitable for high payout speed dispensing (up to 400 coins per minute) and characterized by a standard capacity of 350 coins (Ø 24 mm). Extensions are available to increase the capacity, with an average of 400 coins per extension. The square base allows for four different installation orientations, based on the customer's installation requirements. Conversion to different currencies is fast and easy. A sophisticated electronic control board, together with payout sensors, protects it against any possible accidental jams (the sensor must be kept clean and at a safe distance from any light source). Also available in the Dual Hopper version, which can payout 2 different types of coins.

## Highlights

- Safer than ever, thanks to the new anti-theft metal plate and the new firmware
- Accepts coins of diameters between 18 and 31 mm and thicknesses between 1.5 and 3.2 mm (all Euro coins other than 1c)
- Available in ccTalk or parallel versions, with universal disc for 50 c - 1 € - 2 € Euro coins
- Also available in the Dual Hopper version, equipped with an additional sensor for measuring the coin diameter, as well as 5 special ccTalk controls for mixed coin payout
- Small, compact and easy to install, thanks to its practical installation kit (included)
- "Sun & Planet" gearbox, which allows for optimal operation with minimal consumption (from 350 mA to 850 mA with a peak of 2 A at 24 Vdc)
- "Sun & Planet" gearbox increasing the coin capacity to contain and count more than 1,200 coins with a 24 mm diameter with two extensions (max 2 extensions)
- Auto-reverse system to protect against accidental jams
- Second payout sensor available as option
- Two connection options: 10-pole in-line connector and 5x2 transition connector. A chain of peripherals (daisy connection) can be obtained using a ribbon cable



Anti-theft metal plate



Euro bridge

## Technical Specifications

Size (LxHxD)	125 x 153 x 125 mm
Weight	780 g
Power supply	12 ÷ 24 Vdc ± 10%
Current consumption	30 mA in stand-by; max 3.3 A at 24 Vdc limited during dispensing
Power consumption	1 W max in stand-by - 80 W during dispensing
Operating temperature	0 °C ÷ 50 °C – humidity 20% ÷ 75%
Coins accepted	Ø 18 ÷ 31 mm – thickness 1.5 - 3.2 mm
Payout speed	±7 coins per second
Connection	In-line 10 pole connector - Type: molex series 6471
Capacity	350

## Optional accessories

- CBH1: board for connecting the hopper to ccTalk gaming machines with a 10 pole connector (5x2)
- Extension for increasing the coin capacity vertically
- Extension for increasing the coin capacity horizontally
- Hopper protection cover
- AGCAVOHOPPER: cable for connecting the hopper to machines that use the ccTalk protocol

# RM5 HD



## The Coin Validator with HD High-Discrimination System

5 different sensors and 10 recognition parameters to ensure a high level of recognition and discrimination of valid and counterfeit coins with an unprecedented speed of up to 6 coins per second. Its innovative type of construction ensures strength and durability. The advanced electronic and mechanical anti-fraud systems guarantee excellent security in all installation modes.

### Highlights

- HD high-discrimination system based on 10 different parameters regarding: frequency, dimensions and phase
- 5-sensor identification technology: 3 inductive sensors, 1 optical sensor and 1 magnetic sensor
- High acceptance speed: up to 6 coins per second
- Compatible with all coin sorters available on the market
- Advanced electronic and mechanical anti-fraud system: electronic antifishing device, coin movement direction detection, 3 mechanical traps, and wire cutting blade
- Indicator LED
- Also available the USB version
- Also available in tropicalised version to be used in environments affected by adverse weather conditions



#### Tools



**MultiConfig**  
Program for configuration via PC, which can be obtained free of charge from the download area at [suzohapp.com](http://suzohapp.com)



**Virtual Dip Switch**  
A new device for on-site configuration operations



**PC Programming Kit**  
Includes coin validator support, test box, power supply, interface cable and the MultiConfig software

#### Versions

- USB
- Parallel Validator
- Parallel Validator with sorter
- Spain mode validator
- Binary Validator
- Confida Binary Validator
- Credit pulse emission totaliser
- Credit pulse emission totaliser with sorter control
- ccTalk Giochi Italia
- ccTalk Full

#### Mechanical configurations

RM5 HD is available in two versions, with a different acceptance channel:

- Version A, optimised for the euro, which accepts coins with a maximum diameter of 27 mm and maximum thickness of 2.4 mm
- Version B, accepting coins with a diameter of up to 31.5 mm and thickness of up to 3.2 mm

The versions are available in four models to meet different installation requirements:

Model	Coin entry	Coin reject
F	Top or front	Front
V	Top	Front
B	Top or front	Bottom / left
G	Top	Bottom / right

### Technical Specifications

Size (LxHxW)	99 x 102 x 55,5 mm
Weight	200 g
Power supply	12 ÷ 24 ( ±10%) Vdc
Current consumption	Stand by: max 70mA During acceptance: max 400mA
Operating temperature	0 °C ÷ 55 °C - 10% ÷ 75% umidity non-condensed (standard vesion) -25 °C ÷ 70 °C (tropicalised version)
Coins accepted	Ø 16 ÷ 27 mm; max thickness 2.4 mm (standard) Ø 16 ÷ 31.5 mm; max thickness 3.4 mm (with acceptance channel: 4.5 mm)
Acceptance speed (without sorter)	Up to 6 coins per second
Acceptance rate	95% + first insertion 98% + second insertion
MTBF (Mean Time Between Failure)	at 25°C is around 170,000 hours
MCBF	1,000,000

#### Optional accessories

- RM1000-ADATTA5 vertical adaptor for vending machines without coin recycler
- Validator Adaptor from 3½" to 5"
- Front plates: available in the versions mod. F1 (60x118 mm), F6 (60x152 mm)
- Coin collection funnels of various heights: 9/16/25 mm
- RM5 HD PC Kit: coin validator support, test box, power supply, interface cable and the MultiConfig software
- Customizable graphic label by quantity
- Wide range of coin starter (3,4,5-ways)

# RM5 Evolution



## The Record-Breaking Coin Validator

The RM5 Evolution coin validator is known worldwide for its quality and reliability. Its electronics combines extraordinary selectivity with extreme programming versatility: the Cloning system allows the transfer of the configuration parameters from one sample coin validator to another.

### Highlights

- 3 pairs of inductive sensors which are used to process 6 different parameters regarding the material and the mass
- 3 pairs of optical sensors to determine coin's diameter
- A mechanical anti-fishing device
- An electronic anti-fishing device
- An electronic anti "intrusion" device (only for version F)
- Wire cutting blade
- Automatic optical sensor compensation system for variations in temperature, voltage and lighting
- Identification channels: up to 59, each of them can be redirected to the outlets. The first 6 support Self-Prog mode
- Open collection outlets
- Serial interface for external connections (portable programmer or PC) for calibrating and testing, as well as for updating the value and operating parameters tables
- Credit recognition: parallel, binary, pulse
- Also available in tropicalised version to be used in environments affected by adverse weather conditions



#### Tools

Clone 5  
Programming, configuration and diagnostics software



Programmer  
Portable tool for on-site programming, configuration and diagnostic operations

#### Versions

- USB
- Parallel Validator
- Parallel Validator with sorter
- Spain mode validator
- Binary Validator
- Confida Binary Validator
- Credit pulse emission totaliser
- Credit pulse emission totaliser with sorter control
- ccTalk Giochi Italia
- ccTalk Full

#### Optional accessories

- RM1000-ADATTA5 vertical adaptor for vending machines without coin recycler
- Validator Adaptor from 3½" to 5"
- Front plates: mod. F1 (60x118 mm) - F3 (60x180 mm) - F6 (60x152 mm)
- Special F6 front plate with lock
- Protection for the F6 front plate, to protect against break-in and fraud attempts
- Protection device to protect the RM5 against external agents, such as water or jets
- Coin collection funnels of various heights: 9/16/25 mm
- AGCAVO10P: standard cable to connect the coin validator to the host machine. Available lengths: from 15 to 250 cm
- RMPRINTERF5: cable to connect an RM5 Evolution to a PC in serial mode
- USB SERIAL: cable for converting a serial connection to a USB connection
- Programmer
- USB Kit
- MDB adapter
- Customisable label by quantity

Model	Coin entry	Coin reject
G	Top	Bottom
F	Top or front	Front
B	Top or front	Bottom
V	Top	Front
M	Top or front	Bottom
S	Top	Bottom

### Technical specifications

Size (LxHxW)	89 x 102 x 46,4 mm
Weight	185 g
Power supply	12 ÷ 24 Vdc ± 10%
Power consumption	4W at 12 Vdc
Current consumption	In stand-by: 35 mA max, 12 Vdc - During identification: 50 mA max, 12 Vdc - During acceptance: 340 mA max, 12 Vdc
Maximum current capacity	200 mA at 24 Vdc ±10% (from channel 1 to channel 4) 800 mA at 24 Vdc ±10% (from channel 5 to channel 6)
Operating temperature	0 °C ÷ 55 °C - 10 ÷ 75% humidity non-condensed (standard version) -25 °C ÷ 70 °C (tropicalised version)
Coins accepted	Ø 16 ÷ 31.5 – thickness up to 3.3 mm
Recognisable coins	all euro coins from 1 c to 2 €
Acceptance speed	3 coins per second

# Coin carousel WGR

## High Performance Coins Storage and Payout

The coin carousel WGR has 2 specific functions. It not only stores coins but acts as an escrow to return rejected coins and serves as a payout mechanism. The escrow returns coins already entered, acting as Last-In/First-out (LiFo) mechanism. The WGR is powered by a bidirectional drive motor and the coins are taken by an electromechanical shutter. The current motor position (which is correspondingly the current compartment position) and the shutter position are both monitored by a slotted optical switch. To recognized coins, the entrance is monitored by 3 light barriers.

The major design innovation of the WGR is the carousel with 53 compartments in which 50 entered coins can be stored. The carousel's mechanical design allows all coin handling to take place within this unit. The modular design of the WGR allows several carousels to be placed on top of each other by using a simple rack construction in a complete coin storage and payout system.

## Highlights

- LiFo (Last-In/First-Out) function
- Coin overflow to the cash box
- 3 optical sensors for coin entry, motor and shutter position
- 3 coin channels for acceptance, overflow and reject
- Easy way to insert several WGR carrousel on top of each other to form a coin handling system. Each separate coin value is thus assigned to a separate magazine. A CPU controls the whole process and drives the magazines (available as option)
- If all compartments are full, then the coin that was first accepted reaches the overflow opening in the base of the WGR, and consequently falls through the opening when the next coin enters the magazine. As each magazine is placed directly on top of each other, the coin will fall through the magazine under it and thus into the cashbox. A coin exit sensor is inserted underneath the magazines to ensure that the CPU is informed of any misrouted coin (available as option)



LiFo (Last-in/First-out) function



Possibility to use several WGR carousels

Size (L x H x W)	230 X 184 X 46 mm
Coin capacity	50 (53 coin slots)
Coin specifications	Ø 11 ÷ 33.3 mm Thickness max 3.3 mm
Interface	12 C Bus
Voltage	24 Vdc – 5 Vdc
Current	24 Vdc: 1A 5 Vdc: 500 mA
Inputs	TTL level
Outputs	“open collector” active low
Operating temperature	5° ÷ 50 °C

## Coin Changer and Recycler

Currenza C<sup>2</sup> with PRP (Payout Redundancy Protection) system is specifically designed for the operator: it minimizes machine down time and assures high safety in every applications, making the vending machine more profitable and reliable.

### Highlights

- Acceptance and payout of all circulation coins (also 0,01 €)
- 6 self-filling tubes reducing refilling needs and providing optimum set-up of payout configuration and float level and easy access in case of maintenance
- PRP System (Payout Redundancy Protection) 6 tubes cassette and 3 independent motors for high payout safety and the minimization of down time
- Modular cassette structure for great freedom in tube configuration
- Payout combination optimization to meet each machine's planogram and site users payment behavior
- High payout speed of up to 6 coins per second and acceptance speed of up to 3 coins/second
- MFT technology providing a more secure coin validation, sensor system to measure up to 40 different parameters
- Easy and fast programming with user-friendly intuitive menu
- Henri Service module with updating slot and USB port for programming, configuration change and firmware updating
- USB/RS232 port to speed up integration with PC-based solutions
- Easy access to validation and sorting area for maintenance



### Tools

Audit manager

Free of charge management software with EVA-DTS / DEX-UCS file data retrieval including "Audit knob" function to freeze data until data retrieval is remotely completed

### Optional accessories

- Henri Service module
- External box to connect Currenza C<sup>2</sup> to small automatic and semi-automatic vending machines

### Tubes combinations

Diameter (mm)	Tubes					
	A	B	C	D	E	F
29.0 – 32.5	•					
26.5 – 29.0	•		•			•
24.5 – 26.5	•				•	•
23.0 – 24.5	•	•	•	•	•	•
21.5 – 23.5	•	•	•	•	•	•
20.0 – 21.5		•	•	•	•	•
18.5 – 20.00		•	•	•	•	
17.0 – 18.5		•		•	•	
16.0 – 17.0		•		•	•	
15.0 – 16.0		•		•		

### Technical Specifications

Size (L x H x W)	80.00 x 377.10 x 137.75 mm
Power supply	BDV: 18V ÷ 43V DC USB/RS232 MDB: 18V ÷ 43V DC Battery MDB: 11V ÷ 43V Executive version: 24V AC
Power consumption	- Stand-by mode: 2.5W max - Coin payout: 16.0W max - 48W max with 3 motors - Coin acceptance: 16.0W max
Operating temperature	-25°C ÷ +65°C

### Tubes capacity

Coins	Pieces
2 €	72
1 € - 0,50 €	69 - 67
0,20 €	75
0,10 € - 0,02 €	83 - 97
0,05 €	95
0,01 €	97

### Versions

- **Blue (EXE, MDB)**  
with display and keys
- **White (MDB)**  
without keys or display



# ICS (Intelligent Coin System)

## The Innovative Coin Handling Device

The ICS is a revolutionary new coin handling machine able to process up to 8 different size coins without the need of pre-sorting the coins by the user. Due to its compact design and spacious size (up to 1,300 various sized coins), it is ideal for many applications, and supports a minimum coin-in to coin-out height solution. Thanks to its patented design and SUZOHAPP's long standing experience in coin handling, this device is a world first currency solution, able to be integrated into various machines in different markets for example: parking ticket machines, self-checkout stations, money changers, kiosks and vending applications. ICS's intelligent interface gives you the possibility to directly manage the payout composition or make the calculation itself as to the amount of coins per type to be supplied based on the denomination it holds. It is also able to dispense 4 coins simultaneously.

## Highlights

- Compact design
- High capacity: up to 1,300 coins (euro mix)
- Up to 8 different denominations managed at the same time
- Customizable for country specific coin mix
- Wide coin diameter and thickness range
- Ready to dispense buffer of coins per denomination
- Simultaneous 4 coin payout per cycle (max 4 coins per second)
- Easy access for maintenance



## Technical Specifications

Size (L x H x W)	370 x 198 x 248 mm
Supply voltage	12Vdc (+/-10%); 24Vdc (+/- 10%)
Storage Temperature	-20°C to 70°C
Operating Temperature	0°C to 50°C
Storage Humidity	10% to 95% non-condensing
Operating Humidity	10% to 75%



Compact design:  
one product that works as 8  
hoppers and sorter  
(Reduction of components  
integrated into the cabinet)



High payout speed and  
safety: it guarantees the  
correct payout per coins  
denominations

# CAM-200

# SCAN COIN

## Individual Solution to Fit into Your Coin Counting Machine

The CAM-200 is the most reliable coin counting module on the market. It has a counting speed of up to 800 coins a minute and the ability to validate up to 32 separate denominations. It contains only 2 moving parts, namely the hopper motor and reject solenoid. The CAM-200 has been designed to allow easy access to the complete coin path for jam clearance and preventive maintenance.

### Highlights

- Robust plastic hopper
- The sensors validate each individual coin
- Coins and tokens not accepted are rejected by the solenoid
- The sensors can handle up to 32 denominations
- Coin templates available for most countries
- Built for Bulk coin deposits

### Dongle features

- **Unique design**  
The special hardware lock fits to the CAM
- **The brains behind the CAM**  
The dongle contains the software and configuration for the CAM
- **Programmable**  
It enables/disables features in the CAM for different customers
- **User-friendly**  
The dongle is easy to change to a spare CAM when servicing. Just replace the dongle on the new CAM – it is as simple as that. All transaction data and customer configurations are maintained

### Sensor details

The coin sensors are tested according to regulation (eu) number 1210/2010 of the european parliament and of the council of 15 December 2010 concerning authentication of euro coins and handling of euro coins unfit for circulation. This explains why the CAM-200 is so secure at validating true coins and rejecting false/ counterfeit coins.

The sensors measure five coin parameters:

- 1 Permeability
- 2 Thickness
- 3 Diameter
- 4 Conductivity 1
- 5 Conductivity 2

Additional virtual parameters (ASA) add more information to the discrimination algorithm.



A rotating disc feeds the coins one at a time onto the coin rail



Dongle contains the software and configuration for the CAM is included

### Optional features

- **Automatic Coin Cleaner (ACC)**  
The ACC separates debris from the coins prior to counting, enabling maximum uptime and reliability
- **Escrow**  
Enabling the user to cancel the operation and so return all the coins
- **Multi currency availability**  
Ideal for customers who handle more than one currency. All is done by the CAM-200 – you do not need two separate coin counting machines

### Technical Specifications

Measurements with optional ACC (WxDxH)	300 x 525 x 300 mm
Measurements optional Escrow (WxDxH)	380 x 310 x 220 mm
Counting speed	up to 800 coins/minute
Coin diameter range	14.0 ÷ 33.0 mm
Coin thickness range	1.0 ÷ 3.5 mm
Escrow (optional)	capacity of approx. 1,300 pieces mixed euro coins
Power supply	24 Vdc
Operating temperature	15 ÷ 35 C°

# CAM-208

**SCAN COIN**

## Coin Counting Technology You can Trust

The CAM-208 is the most reliable coin acceptance and sorting module on the market. It has a counting speed of up to 800 coins a minute and the ability to sort up to 8 denominations. It contains only 3 moving parts, namely the hopper motor, reject solenoid and sorting motor. The CAM-208 has been designed to allow easy access to the complete coin path for jam clearance and preventive maintenance.

## Highlights

- Robust plastic hopper
- The sensors validate each individual coin
- A rotating disc feeds the coins one at a time onto the coin rail
- Coins and tokens not accepted are rejected by the solenoid
- Built for Bulk coin deposits
- Coin templates available for most countries
- The sorting mechanism can sort up to 8 denominations
- The correct sorting position by coin diameter is controlled by the sorting plate

## Dongle features

- **Unique design**  
The special hardware lock fits to the CAM
- **The brains behind the CAM**  
The dongle contains the software and configuration for the CAM
- **Programmable**  
It enables/disables features in the CAM for different customers
- **User-friendly**  
The dongle is easy to change to a spare CAM when servicing. Just replace the dongle on the new CAM – it is as simple as that. All transaction data and customer configurations are maintained

## Sensor details

The coin sensors are tested according to regulation (eu) number 1210/2010 of the european parliament and of the council of 15 December 2010 concerning authentication of euro coins and handling of euro coins unfit for circulation. This explains why the CAM-208 is so secure at validating true coins and rejecting false/counterfeit coins.

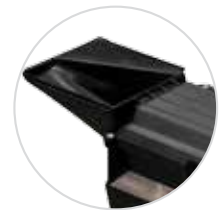
The sensors measure five coin parameters:

- 1 Permeability
- 2 Thickness
- 3 Diameter
- 4 Conductivity 1
- 5 Conductivity 2

Additional virtual parameters (ASA) add more information to the discrimination algorithm.



Rotating disc



Robust plastic hopper

## Optional features

Automatic Coin Cleaner (ACC)

The ACC separates debris from the coins prior to counting, enabling maximum uptime and reliability



## Technical Specifications

Measurements with optional ACC (WxDxH)	300 x 525 x 300 mm
Counting speed	up to 800 coins/minute
Coin diameter range	14.0 ÷ 33.0 mm
Coin thickness range	1.0 ÷ 3.5 mm
Escrow (optional)	capacity of approx. 1,300 pieces mixed euro coins
Power supply	24 Vdc
Operating temperature	15 ÷ 35 C°



# MFL®

## Industry's Most Reliable, Secure, Modular Design

MFL® is the first ever front load banknote validator designed for automated cash transaction applications. MFL® provides modularity and high security due to unique multi-sensor technology. MFL® utilizes a patented alignment mechanism enabling a high acceptance rate for banknotes and barcode vouchers. Due to its robust design and higher reliability, MFL® lowers total cost of ownership, enhances protection against counterfeits and improves machine uptime. MFL® is widely used in gaming, transportation and retail applications across the globe.

## Highlights

- 98% or higher acceptance rate
- Patented multi-sensor technology with self-calibration and removable sensor module
- Aligning mechanism straightens the misaligned banknotes
- Robust mechanism and beltless bill path
- Lockable and secured cash box
- It supports multiple protocols and has a standard footprint
- Updates by smart-stick memory card or host machine



## Technical Specifications

Size (LxHxW)	114 x 306 x 230 mm
Weight	Unit without cash box: 5.1 kg. Cash box 600: 1.95 kg Cash box 1000: 2.4 kg
Accepted banknotes	62 ÷ 82 mm wide and 124 ÷ 172 mm long
Power Supply	12 Vdc or 24 Vdc
Current consumption	12 Vdc: 2.0 A or 24 Vdc: 1.0 A
Operating temperature	0° ÷ 50°
Storage temperature	-30° ÷ +60°C

# Bill-to-Bill 300™



## Intelligent Coin Recycling

Bill-to-Bill 300™ is the multi-width front load bill recycler with high acceptance rates and superior counterfeit detection with patented technology. It is characterized by an advanced sensors technology that improves authentic bill recognition and protects against counterfeits. The validated bills are distributed between three recycling cassettes and one lockable-removable drop cassette. A maximum of 3 denominations may be directed to the recycling cassettes, and other denominations to the drop cassette.

## Highlights

- 98% + first time insertion acceptance rate. Acceptance speed: 2.3 seconds per banknote
- Bill acceptance: lengthwise in four directions
- Barcoded coupons: 2 ways face up (encoding standard: ANSI/AIM BC2-1995, Uniform Symbology, Interleaved 2 of 5)
- Industry's first self-centering mechanism
- Sensors: patented optical, inductive, dielectric and cross channel (anti-stringing)
- Multi-note dispenser for dispensing up to 20 notes in bulk
- Multi Escrow: option to direct all validated bills to recycler. Facilitates return of all bills in case of a cancelled transaction
- Up to 2 high-security locks protecting 1000-note metal cashbox contents. One additional lock to lock cashbox to device
- High impact resistant cash vault. Durable, metal chassis
- Choice of single metal or plastic bezels
- Interfaces: RS232, serial
- CCNET protocol
- Modular design allows easy maintenance and quick clearance of any jams. Full frontal access, eliminating need for special mechanism for rear access.
- Flash memory for software updates
- Up to 3 recycling cassettes (each cassette holds up to 100 notes):
  - "Smart" cassettes save content information for easy swapping
  - Individually configurable to any denomination



## Technical Specifications

Size (L x H x W)	163 x 569 x 378 mm
Weight	18 Kg, cashbox 1.4 Kg
Bill width validated	62 ÷ 82 mm
Length of bill	maximum 172 mm, minimum 124 mm
Dispensing speed	1.4 second per bill
Power Supply	24 Vdc
Current consumption	- Operating mode: 2.7A (4A peak) - Standby: 0.7A
Operating temperature	0° ÷ 50°C
Storage temperature	-30° ÷ 60°C 30%-90% RH (humidity non condensed)

## Banknote Capacity

Recycling cassette	3x100-120 bills
Drop-Proof Cash Box	1,000 bills

# Bill-to-Bill 300 XE™



## Advanced Technology

Bill-to-Bill 300 XE™ is the innovative bill validator with high acceptance rates and superior counterfeit detection with patented technology. It validates, recycles and dispenses banknotes reducing the overall cash on hand and the operating costs. It is characterized by an advanced sensors technology that improves valid bill recognition and protects against counterfeits. The validates bills are distributed between three recycling cassettes and one lockable-removable drop cassette. A maximum of 3 denominations may be directed to the recycling cassettes, while the other one will be directed to the drop cassette. It's suitable.

## Highlights

- 98% + first time insertion acceptance rate
  - Validation technology: optical, capacitive and inductive sensors technology. Sensors: patented optical, inductive, dielectric and cross channel
  - Bill acceptance: stacks of up to 25 bills, lengthwise in four directions. Four-way bill insertion and belt transportation system
  - Barcoded coupons: 2 ways face up (encoding standard: ANSI/AIM BC2-1995, Uniform Symbology, Interleaved 2 of 5)
  - Bill width validated: 67 to 71 mm wide (fixed width) and 62 to 82 mm wide (multi width). Length of bill: maximum 172 mm, minimum 124 mm
  - Up to 3 Lockable Recycling Cassettes. Recycling cassettes not only locked to chassis but also locked if removed to restrict access to cash during maintenance or transportation
  - Drop-Proof Cash Box. RFID option in Cash Box for full tracking of cash content and cash collection personnel IDs. Docking station for RFID Cash Box for automatic print out of contents. SW tools for cash tracking and consolidation
  - Multi-note dispenser for dispensing up to 20 notes in bulk
  - Multi-escrow application: all validated bills will be directed from the validating head into the recycling cassette
  - Up to 2 high-security locks protecting 1000-note metal cashbox contents. One additional lock to lock cashbox to device
  - High impact resistant cash vault. Durable, metal chassis
- Dual Bezel design for improved protection against vandalism. Bezel options: standard, LED, LED with digital display (optional infrared port), LED with digital display and smart card (optional infrared port)
  - CCNET protocol allows for easy, remote online download
  - Battery backup to ensure that transaction are complete, even when power failures occur



Bill-to-Bill 100XE™

Bill-to-Bill 200XE™

Bill-to-Bill 300XE™

# Bill-to-Bill TD™ Top Dispenser



## Highlights

- 98% + first time insertion acceptance rate
- Multi-escrow up to 20 bills
- Multi-width validating head
- Lockable recycling cassette
- Banknote dispenser closer to the banknote accepting module
- Max Recycling capacity: 3 x 100 Banknotes
- Dispensing capacity: up to 20 banknotes
- Cash capacity: 600/1,000 banknotes
- RFID on cashbox optional
- CCNET protocol allows for easy, remote online download
- Interface: Serial RS232



# Bill-to-Bill ST™ Stackerless

## Highlights

- The first 3 denomination banknote recycler with free-fall capabilities
- The smallest banknote recycler that maintains one of highest recycling capacity of 300+ banknotes
- Easy upgrade path from a single note recycler to a full 3 note recycler with escrow functionality
- State-of-the-art validation technology and top of the line performance
- Banknote dispenser closer to the banknote accepting module
- The locking mechanism has been relocated to the top
- Included additional sensors for note tracking to improve reliability



Bill-to-Bill 300™



Bill-to-Bill 300 XE™ Recycler



Bill-to-Bill TD™ Top Dispenser



Bill-to-Bill ST™ Stackerless

# HEAT SEAL BAG SOLUTION (HSBS)

**SCAN COIN**

## The New Solution to Enable Heat-Sealing of Bags within a Safe

This solution adds an extra layer of security to safes. It can be used as a conversion kit for existing safes. Similarly, it is ideal for integrators in need for building note deposit safes with bag sealing technology. In this way the money can only be accessed by the CIT company or the bank. The HSBS is an important way to reduce the possibility of shrinkage. The HSBS comes with the service software tools.

### Highlights

- **Secure**  
The bag is sealed automatically before safe is opened
- **User-friendly**  
It is easy to use and easy to integrate
- **It saves you money day-for-day**  
This saves on manpower and costs as there is no longer the need for the four-eye principle when exchanging the bag
- **Software included**  
The HSBS includes the SCAN COIN software tools
- **Safe seal**  
The seal technology is based on heat sealing and is controlled
- **Intelligent**  
The sealer controls the blocker in the door to avoid any safe opening with open bag



### Benefit from over 20 years of experience

The HSBS enables the use of regular heat seal security bags, in other words low cost bags can be used here. Therefore, the bag design is based on commercially existing safebags, including a safe seal and security features known by industry

### Technical Specifications

Power supply	24V
Power consumption	230W
Weight	7kg
Size (WxDxH)	400 x 400 x 100 mm - Includes slides for pull out of 700 mm
Seal length	220 mm
Bag entry	200 x 150 mm
Maximum note capacity	3,000 notes

# 3M Touchscreens



## Extended Durability for High Use Applications

MicroTouch™ ClearTek™ capacitive touch screens, manufactured by 3M Touch Systems, are the preferred touch solution for applications that require fast and accurate touch performance.

### Highlights

- Flat capacitive profile sensor incorporates advanced construction techniques
- Thin, sleek design which provides easy installation into flat panel displays and flat CRTs
- Transparent overcoat, which significantly increases the physical durability of the surface by allowing it to resist scratches and abrasions
- Popular applications include kiosks, ATM installations, point-of-sale, industrial equipment, gaming machines, and vending



# Open-Frame Touch Monitors



## 90-SERIES

The Elo 90-Series family addresses demands from customers looking for affordable projected capacitive touch technology (PCAP) platforms, to ensure better screen durability and performance. Designed with Elo's innovative 2-glass (2GS) PCAP solution, the 90-Series brought a complete new level of rugged, more sensitive, multi-touch monitors for enhanced user experiences. With 12 different models featuring true-flat glass-to-edge surfaces and bezeled options, Elo's 90-Series monitors are available in sizes ranging from 10 to 27-inches.

### Highlights

- Next generation PCAP 2GS (two glass solution) technology delivers both a ten touch "tablet like" interactive experience along with through touch capabilities that deliver durable performance in high traffic settings
- PCAP units to pass UL Ball Drop test/IK07 or IK08
- Purpose-built open frame architecture designed for hassle-free installation and cable management
- Common electronics and mechanical design across all sizes (VGA, Display Port, serial, USB, RJ45, HDMI)
- Drop in replacement with backwards compatibility allows for plug-and-play replacement of existing units - (X,Y dimensions and mounting will be the same as current products - Z dimension will be the same or thinner)
- Only Elo produces the touchscreens, controllers, and drivers and combines them into a finished touch system that is designed to be a next-generation solution used by leading global brands



# VisionPro Monitors



SUZHOPP can assist you with all kind of monitors applications. For OEM and upgrade projects we have an experienced sales team and engineers to create the perfect touch or non-touch monitor for your application.

## Customized Display Solutions

- Sizes from 6.2" up to 98"
- Complete LCD and touch integration
- Custom specifications
- With or without surrounding LEDs
- Various touch technologies
- Various specialties (optical bonding, privacy filters or sun protection foils)
- 1-year warranty



## Display Components and Boards

- Key panel manufacturers (LG, AUO, Samsung)
- Panels combined with high quality A/D boards

# STC Round Key Camlocks



High reliable range of camlocks of different sizes to satisfy customer needs. The locks are available both as key different and key alike.

## Highlights

- 7-pin tumbler lock
- Housing with chrome finish
- Round chrome plated key
- Available as key different and key alike
- Available in: 16 mm (5/8"), 22.3 mm (7/8") and 28.6 mm (1-1/8")
- Cam included



All new key alike series are supplied in lots of 25, 50 or 100 pcs with a total of 5 keys per key code  
Re-orders on the same key code are possible with a minimum of 25 locks per key code

# Solutions



# Dual Coin PRO



## The Ideal Solution For Dispensing Large Amounts

Its exceptional structural strength, reinforced closing mechanisms and ccTalk protocol make it one of the most secure change machines on the market. The 32-bit CPU provides notable functions, such as importing/exporting configuration parameters, exporting accounting data and the useful function of machine cloning. The Dual Coin PRO can be equipped with the NV9 USB+ banknote reader with built-in stacker to stack up to 600 banknotes.

## Highlights

- Distribution of coins and tokens
- Bonus function for tokens: coins/tokens dispensed automatically or manually
- The separate dispensing of coins and tokens, which are contained in different hoppers, can be selected using the appropriate button
- Operation via ccTalk
- 32-bit CPU with SD-Card
- Exporting of accounting data and importing of configuration parameters via SD-Card
- Machine cloning function
- Internal on/off controls to prevent tampering
- Pivoting door to facilitate dispenser-loading and cash box removal operations
- Additional doors for recharging the change machine (located on the cover)
- Installation options:
  - wall mounted, by means of 3 anchoring bolts to be inserted at the back side of the device
  - countertop
  - free standing



### Installed peripherals

- Evolution hoppers with extensions
- NV9 USB+/NV10 USB+ banknote reader

### Optional peripherals

- RM5 HD coin validator

### Tools

#### Multiconfig

Software to configure the change machine

### Optional accessories

- Brain remote control device
- Support base
- Reprogrammable lock
- Coin/token collection cups (max h 120 mm - Ø 145 mm)
- Cup dispensing tube
- Steel protective bars

### Technical Specifications

	Change Machine	Change Machine with Support Base
Size (LxHxW)	400 x 805 x 409 mm	400 x 1,620 x 409 mm
Weight	43 kg / 95 lb	60 kg / 132 lb
Power supply	230 Vac - 50 Hz	230 Vac - 50 Hz
Power consumption	60 W max	60 W max
Operating temperature	3 °C ÷ 50 °C	3 °C ÷ 50 °C

### Coin Capacity

	0.5 €	1 €	2 €
2 Universal MK IV hoppers with extensions	7,000	7,000	6,500
Cash box	4,900	4,900	4,600

## The Versatile Best Selling Change Machine

The Easy PRO fits perfectly into all environments: shopping centres, gyms, airports, service stations, arcades, offices, bars and internet cafés. The 32-bit CPU provides functions normally present only on change machines of higher range and price, such as importing/exporting configuration parameters, exporting accounting data and the useful function of machine cloning. The reinforced closing mechanisms make Easy PRO one of the most secure change machines on the market with respect to attempts of tampering and fraud.

### Highlights

- Distribution of coins or tokens, dispensed automatically or manually
- Bonus function for tokens
- Connection of peripherals via ccTalk
- 32-bit CPU with SD-Card
- Exporting of accounting data and importing of configuration parameters via SD-Card
- Machine cloning function
- Internal on/off controls to prevent tampering
- Pivoting door to facilitate dispenser-loading and cash box removal operations
- Special cover for the dispenser's extension: prevents coins from falling out in the event that the machine is tipped over
- Holes in the cabinet for fastening the unit to other machines or to external structures such as columns or pillars
- Installation options:
  - wall mounted (with the Easy UP kit)
  - countertop
  - wall mounted, by means of 3 anchoring bolts to be inserted at the back side of the device
  - free standing on base (optional)



### Tools

Multiconfig  
Software to configure the change machine

### Installed peripherals

- Evolution Hopper with extensions
- NV9 USB+/NV10 USB+ banknote readers

### Optional peripherals

- RM5 HD coin validator

### Optional accessories

- Brain remote control device
- Kit for reinforcing change machines already in use
- Support base
- Easy UP installation kit
- Reprogrammable locks
- Steel protective bars

### Technical Specifications

Technical Specifications	Change Machine	Change Machine with Support Base
Size (LxHxW)	257 x 473 x 353 mm	257 x 1,436 x 353 mm
Weight	25 kg	38 kg
Power supply	230 Vac - 50 Hz	230 Vac - 50 Hz
Power consumption	60 W max	60 W max
Operating temperature	3 °C ÷ 50 °C	3 °C ÷ 50 °C

### Coin Capacity

	0.5 €	1 €	2 €
1 Evolution hopper with extension	2,400	2,400	2,200
Cash box	1,400	1,600	1,300

# Changeuro MultiCoin



## Enviably Coin Capacity

The version with two hoppers with extensions can reach a coin capacity of up to 11,000 (1 € coins). The graphic label can be customized to increase visibility of the company logo.

## Highlights

- Automatic or manual coin/token dispensing
- The separate dispensing of coins and tokens, which are contained in different hoppers, can be selected using the appropriate button
- Sheet metal with tubular security lock to guarantee optimal security
- CPU electronic board with collections data detection
- Internal on/off controls to prevent tampering
- Installation options:
  - wall mounted, by means of 3 anchoring bolts to be inserted at the back side of the device
  - free standing on a cabinet base



### Tools

#### Programmer

Portable tool for on-field programming configuration and optional diagnostics



### Optional peripherals

- 2 Evolution hoppers plus 1 Evolution hopper with extension
- 4 Evolution hoppers
- WorldKey or EuroKey Next cashless systems

### Installed peripherals

- RM5 HD coin validator
- 2 Evolution hoppers with extension
- NV9 USB+/NV10 USB+ banknote reader

### Optional accessories

- Cabinet base
- Protection devices with side locks

### Technical Specifications

	Change Machine	Change Machine with Support Base
Size (LxHxW)	530 x 650 x 355 mm	530 x 1,570 x 530 mm
Weight	43 kg	73 kg
Power supply	230 Vac - 50 Hz	230 Vac - 50 Hz
Current consumption	0.45 A	0.45 A
Power consumption	100 W max	100 W max
Operating temperature	0 °C ÷ 50 °C	0 °C ÷ 50 °C

### Coin Capacity

	0.5 €	1 €	2 €
2 Evolution hoppers with extension	11,000	11,000	8,000
2 Evolution hoppers + 1 Evolution hopper with extension	8,500	8,500	6,400
4 Evolution hoppers	6,080	6,040	4,800
Cash box	3,000	3,000	2,100

## Quality, Technology and Safety in a Single Product

Latest technology, touch screen monitor and advanced functions for the Multi PRO, the revolutionary outdoor change machine, designed with the aim of meeting the operator requirements and combining innovation, simplicity and convenience. Based on state-of-the-art PC architecture, it allows the user to quickly manage multiple tasks, such as recharge cards and keys, change money, buy tokens and distribute cards or keys.

### Highlights

- Possibility of paying with coins and banknotes or a card or key/card. If required, payment can be made with bankcards (chip or contactless)
- Rapidly change banknotes into coins and/or coins into tokens
- Sell tokens with 3 separate hoppers
- Give change in coins and banknotes
- Recharge credit on keys or cards
- Dispense cards and keys
- Print the receipt once the transaction is complete or if unsuccessful
- Management of promotional activities to purchase tokens or recharge keys or cards
- Vocal and graphic support
- Touch screen interface for fast and simplified operations
- Possibility of a remote connection to update and configure it
- Automatic accounting emails, automatic alarms emails
- Barcode reader
- Installation options:
  - free-standing
  - wall-mounted



### Installed peripherals

- Anti vandal 5" touch screen
- Vocal guide
- Proximity sensor

### Optional peripherals

- RM5 HD coin validator
- Currenza C<sup>2</sup> coin recycler (instead of RM5 HD)
- EuroKey Next cashless system
- 2 dispensers of cards or keys
- 2 NV9 USB+ banknote readers
- 3 Evolution hoppers
- POS or bankcard contactless reader
- Scanner for the barcode management
- Thermal receipt printer

### Technical Specifications

	Free-standing	Wall-mounted
Size (LxHxD)	630 x 1,448.15 x 590	503 x 770 x 518 mm
Weight	140 Kg	70 kg
Power supply voltage	230 Vac	230 Vac
Current consumption	230 VA	230 VA
Operating temperature	-15°C to 50°C – humidity 10% to 90% not condensed	-15°C to 50°C – humidity 10% to 90% not condensed

### Coin Capacity

	0.5 €	1 €	2 €
1 Evolution hopper	1,500	1,500	1,200
2 Evolution hoppers	3,000	3,000	2,400
3 Evolution hoppers	4,500	4,500	3,600

# ICX Active-9

**SCAN COIN**

## When Speed and Accuracy Matter

Eagerly anticipated, intelligent, and fresh out of the box, SUZOHAPP proudly presents the ultimate, mid-weight, strong and reliable coin counter/sorter. An exciting contender to make an entrance into the cash solution 'ring', the ICX Active-9 is perfect for medium sized businesses, especially those wishing to process medium volumes of coin without having to worry about reliability and capability.

### The ICX Active-9 Features The Outstanding Active Sorting® Functions

- Process multiple currencies
- Adding multiple coins in the same bag
- Bag switching
- Multiple set-ups
- Configured in software
- Highest throughput and efficiency

### Latest Design With Proven Best-In-Class Technology

This new design is developed through listening to our customers and adapting to match their needs. Through years of research, development, testing and industry trials, the ICX Active-9 is engineered to be the best at delivering what any coin sorter should - accuracy and consistency.

Furthermore, the solution has a 10" LCD touchscreen display for quick operation where the user can easily change the set-up of denominations and keep track of the cash management data in order to develop their business further.

### Automated Coin Handling Is One Thing. Intelligent Coin Processing Is A Whole New Story

The ICX Active-9 features the same firmware as the strong ICP Active-9 platform with the unique, software-controlled Active Sorting® technology. It has the ability to re-program sensors which provides the intelligence necessary to instantly adapt to future regulatory needs without having to invest in new hardware. Of course the solution is ready to handle the latest coins, such as the new £1.



### Outstanding Coin Sorter For Medium Coin Volumes

The ICX Active-9 fills a void where organisations were limited in choice. It is a competitive mid-range coin solution for customers who receive a reliable, robust machine, but also benefit from fantastic value on investment. The ICX Active-9 is the perfect solution for customers who manage medium volume of coins, but need the reliability and outstanding features of the ICP Active-9.

## Highlights

- Basic dimensions (WxDxH): 770 mm x 614 mm x 547 mm (30.3" x 24.2" x 21.5")
- Weight 89 Kg
- Active Sorting®
- 9 coin outlets plus 1 for rejection
- Processing up to 2,700 coins per minute
- 10" touchscreen user interface
- Low power consumption
- Either desktop or standalone solution
- 3 USB for accessories or peripherals
- One ethernet port for networking
- Additional input and output for accessories
- Coin outlets are spaced identically to the ICP Active-9 and SC-4000
- Configuration by standard P-5000 service program

# DTC Series

**SCAN COIN**

## Explore True Cash Handling

The latest DTC solution is designed to satisfy the market's need for reliable and modern cash processing. It is a strong performer in sorting and counting, as well as in rejecting foreign and damaged coins. Through the unique sensor technology the solution offers outstanding accuracy, combined with reliable functions. Maximise the efficiency at the same time as you increase the accuracy, enabling you to focus on more profitable tasks.

### Latest features and operating excellence

Touch-screen display and keypad for easy operation. This, together with the proven sensor technology and the reliable construction, ensures years of operating excellence

### Reliable and versatile

The latest design is made to fit in different working environments, such as banks, Supermarkets, casinos, retail stores and other areas where cash is being handled

### Flexible choices

Depending on how many denominations you wish to count and sort, choose the DTC model that best meets your needs. The DTC-1 sorts and counts one denomination, the DTC-6 six denominations and the DTC-9 nine. An optional second solenoid can also be installed to separate a second currency or tokens

### Heavy duty coin sorter

The heavy duty coin sorter, built in strong metal, counts up to 600 coins per minute and sorts them into boxes. If two denominations are too close in diameter there is an option to install a second solenoid for optimal sorting

### Detect foreign coin

Besides counting and sorting coins into boxes, the unit features automatic rejection of foreign and damaged coins, as well as programmable batch stops

### Several sorting options

The coin sorter can be equipped with bag holders as well as coin tube holders



Technical Specifications	DTC-1/DTC-2	DTC-6	DTC-9
Weight	14 kg (30.9 lbs)	22 kg (48.5 lbs)	30 kg (66.1 lbs)
Size(W x D x H)	360 x 285 x 400 mm (14.2" x 11.2" x 15.8")	508 x 285 x 444 mm (20" x 11.2" x 17.5")	668 x 318 x 485 mm (26.3" x 12.5" x 19.1")
Power supply	90-260 VAC, 60/50Hz	90-260 VAC, 60/50Hz	90-260 VAC, 60/50Hz
Power consumption	Working mode: 60W Standby: 24W	Working mode: 60W Standby: 24W	Working mode: 60W Standby: 24W
Counting speed	Up to 600 coins/minute	Up to 600 coins/minute	Up to 600 coins/minute

# SC-8220 & SC-8220F Fitness

**SCAN COIN**

## Make Cash Handling Easy and Secure

Reduce the manual cash handling and get full control of your cash. Introducing the SC-8220, a high quality value and multi-currency counter that delivers outstanding results at low cost.

### Full Flexibility for the Distributor

The SC-8220 comes with a preset of 20 currencies. One set of currencies will be available for each main geographic region containing main international currencies and regional currencies. The distributor has the flexibility to reduce the number of available currencies.

### Full Flexibility for the End User

It counts and verifies one currency with ease and accuracy, but when it comes to handling multi-currency it also proposes two new modes to avoid time consuming and repetitive manipulations:

**Multi** - it accepts different currencies in one single operation and provides a total note count split into the various currencies found within the note bundle

**Auto** - The machine identifies the currency of the first note in the bundle and sets itself in the mode to count this currency and to reject all other currencies

The user can also reduce the number of currencies available through the currency button.

### UV LED Bar

A patented UV LED bar placed under the machine will help manual authentication of bad notes. The UV lights will turn on automatically for a few seconds when the notes are rejected.

### Integration and Backward Compatibility

For easy back office integration SC-8220 is provided with its own protocol. All transactions can be seen and managed using the free software.

### Front Access Features

The SD card slot is placed on the front of the machine, thus making the update of the machine very simple.



## SC-8220F New Fitness Version

New version with additional features:

### One-step fitness mode

FIT and UNFIT notes go to corresponding pockets. This is suitable when authentication has been done in mass quantity in advance

### Two-step fitness mode

Although with two pockets, the machine can still sort the FIT, UNFIT, and CF notes clearly by using two-step fitness mode

### Mechanical thickness sensor for accurate tape detection

### Technical Specifications SC-8220

Technical Specifications	SC-8220	SC-8220F Fitness
Dimensions (W x D x H)	275 x 260 x 319 mm (10.83"x10.24"x12.56")	275 x 260 x 319 mm (10.83"x10.24"x12.56")
Weight	Approx. 9.3 kg (20.5 lb)	10.50 kg
Voltage	100-240V / 50/60 Hz	100-240V / 50/60 Hz
Power consumption	Max 50W	Max 80W
Hopper Capacity	Max 500 notes	Max 500 notes
Speed	800 notes per minute (serial number) 900 notes per minute (value counting) 1,100 notes per minute (free counting)	750 notes per minute (fitness) 750 notes per minute (serial number) 900 notes per minute (value counting) 1,100 notes per minute (free counting)
Stacker pocket	Max 220 notes	Max 220 notes
Reject pocket	Max 50 notes	Max 50 notes
Note size	Width 50 ÷ 85 mm (1.97–3.35") Length 100 ÷ 182 mm (3.94–7.17")	Width 50 ÷ 85 mm (1.97–3.35") Length 100 ÷ 182 mm (3.94–7.17")
Note thickness	0.075 - 0.150 mm	0.075 - 0.150 mm
Material	Paper and polymer	Paper and polymer
Language	Max 8 languages including English	Max 8 languages including English
Sensors	Dual CIS / UV / MG / IR	Dual CIS / UV / MG / IR / Mechanical thickness sensor
Display	3.2" color touch screen LCD	3.2" color touch screen LCD
Interface	USB, SD Card, LAN, serial port for printer, and external display port	USB, SD Card, LAN, serial port for printer, and external display port

## The latest self-service bulk coin deposit solution

CDS-820j - an upgraded version of one of our most powerful and popular self-service solutions for bulk coin deposits - features a modern and intuitive user interface, displayed on a crystal clear 7" colour touch screen. The CDS-820j is most powerful software giving full flexibility for usage and connectivity to back-end systems.

### Proven best-in-class technology

The proven best-in-class technology, based on over 25 years of experience, has been put into the CDS-820j. The latest solution is ready to meet the future demands and the toughest requirements on the market.

### World class software

With its multifaceted and well designed architecture the software is highly acclaimed by many customers and is used as the industry standard in several markets. With this software you have full flexibility for configuring the machine. And it has never been easier to connect to back-end and monitoring systems.

The clear touch screen combined with it provides the best user's experience in any language. With the new screen CDS-820j offers full coverage of all countries' characters.

### Strong sensor technology and connectivity

The latest sensor technology is available on CDS-820j which naturally is ETSC approved. The highly accurate and reliable sensors identify and count deposited coins, while rejecting foreign, damaged and counterfeit coinage. To store the cash safely a lockable coin tray is also included.

### Self-service around the clock

Cash Deposit Systems open the way to self-service around-the-clock. They create new opportunities for smart cash processing logistics, improve customer service and release staff from manual cash handling for a more profitable consulting role. The modular CDS-820j enhances these benefits by providing customer-specific solutions applicable for banks and retail stores with medium to high-volume coin flows.



### Outstanding serviceability

With easily accessible modular components, both hardware and software is simple for staff to service or replace. The Coin Acceptance Module (CAM) contains a detachable dongle, which stores software, memory and configuration information. The compact, lightweight unit is easy to install. Storage in vaults or bags for easy reconciliations.

### Technical Specifications

Screen	7" color touch screen
Software	OrchardJ
Width	580 mm / 22.8"
Depth	580 mm / 22.8"
Height	1,130 mm / 44.5"
Weight	110 kg / 242.3 lb
Voltage	100-130, 200-240 V, 50/60 Hz
Speed	900 coins/min.
Diameter	14-33 mm / 0.55-1.3"
Thickness	1.0-3.5 mm / 0.04-0.14"
Standard	ACC (automatic coin cleaner) CAM 200 Not-sorting Receipt printer, thermal 80 mm

### Accessories and Options

- Sorting
- Dip card reader
- Motorized card reader
- Double outlet on sorting CAM
- Double outlet on non-sorting CAM
- Multi bag system, 6 bags, non sorted
- Coin vault



# RCS-400 2.2

CashComplete™

## Transform Your Cash Handling

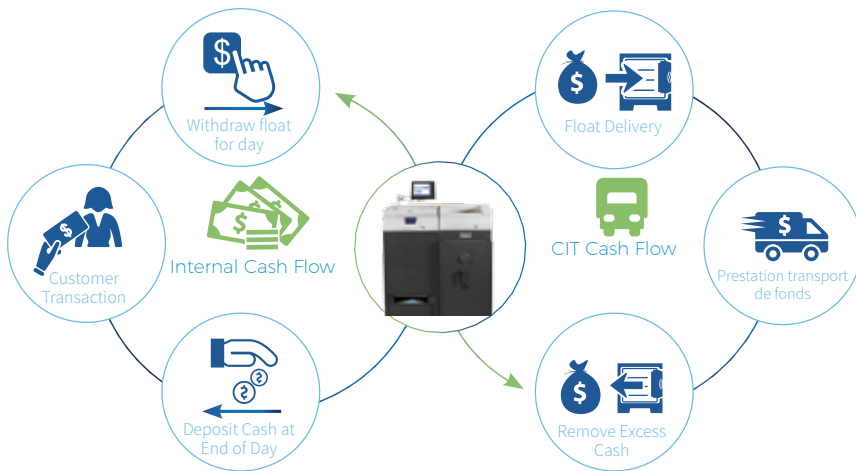
The CashComplete™ RCS Solution transforms your cash handling into smart cash management, improving your business at all levels. Paired with our unique suite of software the RCS Solution is a strong back office solution for any market. RCS-400 2.2 now comes with a flexible system for different tills to make the solution fit to your detailed needs

## Turn Cash into Real Value

The RCS Solution is a powerful automator for your back office operations. Make this smart solution part of your daily operations and decision making, instead of spending hours on administration and counting. This ensures a quick return on investment through dramatically improved cash management.



Pair the RCS-400 2.2 with a banknote management module to complete the automation of your cash



## Efficiently Cycle Cash All Through Your Business

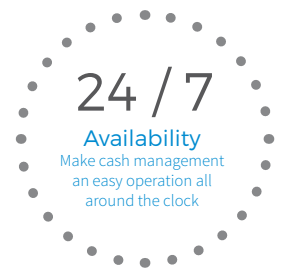
The steady flow of cash into your back office needs to be counted, allocated and secured quickly and efficiently. With the RCS Solution you take control of your cash through an efficient cash cycle in all areas of your business, from internal cash handling to CIT operations. This ensures both time and cost savings, as well as an improved customer service.

## Optimised financial and operational control

RCS-400 2.2 works with the CashComplete™ Connect management software to provide you ultimate financial and operation control of your cash flow. This cash management solution can be connected to an existing network and can be controlled remotely. It maximizes the value of your business as you benefit from the best in cash management technology.

- ERP Integration
- Financial control
- CIT Integration
- Optimised availability
- Report Generation
- Automatic Reconciliation
- POS Integration
- Connect 24 hours/day 7 days/week





# Explore True Cash Management

We believe that cash management can be fast and require minimal interaction. We offer you the benefit of automating your cash flow so that you have it in real-time on your computer or other connected device when you need it. It's as simple as that with the CashComplete™ Connect Software.



- Streamlined Cash Management
- Improved In-store Cash Flow Management
- High Cash Security
- Issuing automated floats/banks

- Optimized CIT deliveries and pickups
- Counterfeit detections
- Reduced cash handling costs

- Secure, fast & accurate processing
- Reduced shift turnover time
- Faster reconciliation
- Customizable Multi-Till system

## Flexible Multi-Till Solution

The Flexi-Till Solution is giving the retailer a freedom to use the existing tills already used in store together with the RCS-400 coin recycler solution. The Flexi-Till Solution are able to handle the most common tills available on the market\*. This will optimize the dispense operation by having the coins sorted into the correct pockets, which will save valuable time and minimize the risk of wrong coin in wrong pocket.

The "Till Dispenser" function is optimized to have the correct amount of coins in each pocket, this will minimize spillage and coins to be carried in other ways. When the Till is inserted the dispense operation starts automatically by a sensor activation, this avoids the risk of having coins being dispensed inside the machine without the presence of a Till and saving valuable time. The coins are dispensed parallel with the notes. When notes are ready and taken out of the RCS-500 the Till is ready to be taken out of its position and the cashier is ready to start working! When the RCS-400 2.2 is in deposit mode the Till compartment is closed and coins are available to be sent to transport box when needed. The Multi-Till Solution optimizes the valuable time in the store!

\* If your Till is not presented in the document 5004836-000 please contact the SUZOHAPP office for a proposal for the adjustment.

## Patent Pending



**Effective Management**  
With its recycling capacity of up to 16,000 coins and 8 denominations

**Banknote Recycling**  
The RCS-400 2.2 is designed to be associated with a Bill to Bill or a MDS for processing and recycling banknotes

**Large Capacity, Secure Storage**  
The "overflow" box increases the total capacity from 5,500 coins to 21,500 coins, which are stored within the safe

**Electronic Locks**  
Facilitates management of back-office processing

**Design**  
Low working height and light indications make the RCS-400 2.2 one of the most user-friendly solutions on the market

**The Software Platform**  
The RCS-400 2.2 is connected to the CashComplete™ Connect Intelligence software for optimal management of your money

**Proven Technology**

**Distribution of Coins**  
The distribution of cash is made easy by depositing change in a carrying case

**Better Technology**  
Our unique innovations make our recycling solutions some of the most reliable on the market

## Specifications

	RCS-400 2.2	RCS-500
Deposit	12 coins/sec, Mixed	Notes in bundle mixed (200 notes), 8 notes/s
Dispense	Up to 40 coins/sec	8 notes/s in bundle of 100 notes
Recycling Storage	16,000 coins	2,500-10,000 notes, 1-4 cassettes
Number of Recycling Denominations	8	4
Storage	5,500 coins in a self-sealing bag	1- 5 cassettes for pickup 2,500-12,500 notes, stacked in cassette
Total Capacity	21,500 coins	12,500 notes
Certifications	Certified European Central Bank	Type 5a, ECB certified
Security	2-3 mm Steel cabinet, key lock security	2-3 mm Steel, CEN IV
Dimensions (W x D x H)	590 x 500 x 1,155 mm ( 23.2" x 19.69" x 45.47" )	600 x 500 x 995 mm ( 23.6" x 19.69" x 39.17" )
Empty Weight	80 kg	700 kg

# SDS-100, SDS-150, SDS-200, SDS-250, SDS-300

Cash**Complete**™

## Retail Cash System With Note Deposit

The Smart Deposit Solution range consists of five solutions and can be connected to several coin units. This flexible solution assures you to always find the most suitable one for your business. Its high reliability and security with cutting-edge technology, in combination with its innovative functions, makes it a perfect partner for cash handling. Furthermore, the SDS range is connected to the CashComplete™ On-Device Software, which includes all the functionalities needed in the Retail world. You will get profile management, data management and automatic reports, whenever you need it.



The Smart Deposit Solutions range is available in different sizes, from SDS-100 for smaller businesses to SDS-300 for larger amount of notes. The bill validator is offering state of the art functionalities with a speed of 24 notes per minute. Smart Deposit Solutions can also be connected to a coin unit for complete cash automation. We will help you find the right solution to suit your specific needs.

Technical Specifications	SDS-100	SDS-150	SDS-200	SDS-250	SDS-300
Note packing, self seal bag	N/A	N/A	2,000 notes	3,000 notes	3,000 notes
Note packing, cassette	1,200/2,200 notes	1,200/2,200 notes	N/A	N/A	N/A
Bundle note in	Optional	Optional	Optional	Optional	Optional
Size (W x D x H)	210 x 676 x 747 mm 8.2" x 26.6" x 29.4"	330 x 676 x 747 mm 12.9" x 26.6" x 29.4"	450 x 625 x 730 mm 17.7" x 24.6" x 28.7"	450 x 625 x 1,070 mm 17.7" x 24.6" x 42.1"	645 x 640 x 1,010 mm 25.3" x 25.1" x 40.5"
Safety class	4 mm steel plate	4 mm steel plate	CEN I	CEN I	CEN IV
Drop box	Optional	Yes, In safe	Optional	Optional	Optional
Embedded PC	N/A	Yes, Windows	Yes, Windows	Yes, Windows	Yes, Windows
Touch screen (size)	N/A	7"	7"	7"	7"
Printer (size)	N/A	3"	3"	3"	3"
Barcode reader	Optional	Optional	Optional	Optional	Optional
Swipe card reader	Optional	Optional	Optional	Optional	Optional

# SPS-700 & SPS-800

Cash**Complete**™

## Focus on the customer while the cash is secured

The new SPS-700 and SPS-800 is the fully automated solution to minimize manual handling in the check-out lanes. As a second generation point of sale cash automation it brings the cash payment experience to a new level. Mainly built on SUZOHAPP components, it's the new closed end-to-end solution, specifically designed to maximize uptime and, securing the whole cash loop. By using this complete solution, retailers minimize the incidence of counterfeits, counting errors, shrinkage and robberies.

### Count on reliability

Cutting-edge technology to count coins and notes, minimizing the risk of counting errors and shrinkage. Coins can be paid a handful at a time, which speeds up the transactions. Notes are inserted in the slot so that you don't need to sort them manually. Coins and note inlets are easily accessed in the point of sale. The LED indicators guide the user throughout the transaction for an intuitive customer experience.

### Easy integration and maintenance

SPS-700 and SPS-800 have been designed to fit any existing counters and they are a perfect solution for both current and future checkout styles. Built on the CashComplete™ platform it can be connected to any backoffice unit and enables a quick and easy POS software integration. The modern black-line design is easily integrated into the counters and the status indicator lights help operators to have the control of the machines also on distance. Built on a modular concept, this solution, accessed from the top, enables ergonomic maintenance the maintenance operations and maximize the uptime. Different access levels are possible to help in maintenance and maximize the uptime an increased security in the front office.

### Advantages

- Proven technology for maximum reliability
- Maximum uptime and service
- High security of cash
- Efficient cash cycle
- Modular and flexible configuration
- Fast integration
- Faster payments and increased customer service



Second Generation Point of Sale Cash Automation

## The strength of the CashComplete™ platform

SPS-700 and SPS-800 are connected to the most advanced cash management platform. Thanks to the CashComplete™ On-Device software you can get maximum value with your solutions. Increase employee productivity with intuitive work flows that optimize the transaction time for cashiers, tellers and supervisors as well as CIT providers. The user-friendly interface reduces the required training and the software can be also integrated with third party applications and solutions. Thanks to the CashComplete™ Connect platform you can fully monitor your cash and generate reports for the complete visibility of your cash flow. You can access your business via computer, tablet or mobile phone for the real time cash management.



## The Advanced Machine Platform for Cash Management

CashComplete™ On-Device is an open, integrated, user centered software platform that enables organizations to achieve maximum value with their cash management solutions. Increase employee productivity with intuitive work flows that are adapted to your business process. Enforce cash handling business rules at the user, role or revenue center level. Reduce cost by leveraging machines across multiple operating units with multi-tenant capabilities.

### Improved Work Flows

Easily configure work flows that optimize the transaction time for your cashiers, tellers and supervisors as well as your Cash in Transit (CIT) provider, while ensuring all cash handling rules are enforced, tracked and audited.

### Adaptable and Customizable

Need even more capabilities? With an upgrade to Enterprise Edition, organizations have the ability to extend the capabilities of CashComplete™ On-Device by developing plugins, utilizing a well-documented, cross platform SDK. Or utilize the pub/sub API to integrate with third party applications and solutions or leverage the industry standard Java POS for integration with Point of Sale terminals.



### Optimized User Experience

Your employees will rapidly understand CashComplete™ On-Device thanks to the highly intuitive and familiar user interface. This not only reduces the amount of required training, but also increases the level of productivity by reducing overall transaction time.



### Highlights

- ▶ Simple to Learn and Train
- ▶ Issues Automated Floats/Banks
- ▶ Improves In-Store Cash Flow
- ▶ Optimizes CIT Deliveries
- ▶ Increases Cash Security
- ▶ Provides Flexible Connectivity

# CashComplete™ Connect



## Change The Way You Look At Cash

CashComplete™ Connect is a revolutionary platform which allows you to fully monitor your cash and generate indepth reports for complete visibility of your cash. This platform is a cloud-based hub that connects you to your business via computer or mobile device for the new generation of advanced cash management. Harness the power of the cloud within a fully secure and PCI-ready environment. CashComplete™ Connect is intuitively designed with a human-centric interface, while maintaining flexibility and powerful connections through an open REST API. The CashComplete™ Connect platform integrates with all CashComplete™ hardware and other compatible machines.

## Complete Cash Visibility

Know the exact amount of cash in every machine across your enterprise per denomination and location. Make use of data visualization for immediate insight of your business. Customize your reports to quickly access exact data and optimize how you look at cash.



## Intelligent Alerting and Monitoring

Monitor the health and status of your devices in real time. Easily configure actionable alerts that can include SMS or emails to specific users. Receive contextualized and detailed notifications for machine actions.



## Device Management and Reconciliation

Access aggregated transactional data summarized by user or point of sale across machines and sites. Run custom reports with the powerful built-in query builder and save your custom reports for later use.









# Notes

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