SUZOHAPP

Kiosk, Vending and Ticketing Solutions

Touchmonitors

Barcode Scanners

Printers

Speakers
and Amplifiers

LED Light Strips

Cooling
Fans

Door
Switches

Locks

Power Supplies,
USP, Line Filters

SUZOHAPP

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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, vending, banking, gaming 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 operates in 19 countries and its dealer network covers more than 100 countries.

1,100+ employees	50,000+ products	35 facilities	25,000 customers	115 Engineers	Hundreds of patents

VISION

To be the global market leader in technology-driven cash management, self-service, and gaming devices through our commitment to people, customers, and quality

MISSION

To provide our customers with excellent service and high-quality components, solutions, and software that create significant value for their business

CORE VALUES

AGILITY	CUSTOMER FOCUS	INNOVATION	INTEGRITY	RELIABILITY	TEAMWORK

PRODUCT BRANDS

SUZOHAPP is a diverse company with multiple brands and product lines

SCAN COIN	CashComplete™	Comestero	Bill to Bill	currenza G²
COINCO	VisionPro™	CompetitionPro	BilliardPro	InteractivePro

We take pride in our products, we take care of our customers and we value our people

Global Reach

SUZOHAPP is a global company with a worldwide presence and a diverse workforce. SUZOHAPP has grown rapidly to meet the needs of the markets, expanding the breadth of its product offering and service capability. Its best-in-class product and service offerings create significant value and operational efficiencies for customers all over the world.

- International coverage through national subsidiaries
- Worldwide presence with a global service network
- Distribution partners all around the globe
- Variety of customers across multiple business segments

Around The World & Around The Corner

In addition to the offices and manufacturing sites located on the map, SUZOHAPP has strategic partnership agreements with Value Added Distributors, Gaming Channel Partners, and Contract Service providers in those regions where market or license conditions dictate.

Your Strategic Partner

SUZOHAPP's logistical support and supply chain configuration builds on its total value proposition by providing customers with cost saving delivery "From Our Door to Your Production Floor". Through continuous communication and feedback, the SUZOHAPP supply chain team works closely with customers and factories to maintain a steady product supply while eliminating costly additional inventory. We are firmly committed to providing the best customer service to all customers.

Manufacturing Capabilities

Adding Value Through Manufacturing

SUZOHAPP continually improves its engineering, manufacturing, service and distribution capabilities to meet the needs and exceed the expectations of its valued customers. With many years of industry experience and production excellence, SUZOHAPP has developed innovative customer-centric engineering and manufacturing processes.

SUZOHAPP designs and manufactures products that are used extensively in Gaming and Amusement devices as well as in demanding Industrial, Vending, and Transportation applications. In-house design, development and production resources located in multiple SUZOHAPP facilities, ensure that projects are efficiently taken from concept to completion.

DESIGN & ENGINEERING

Design & Prototyping

Equipment
- CAD workstations
  - Pro/Engineer
  - SolidWorks
  - AutoCAD
- FDM prototyping machine (3D printing technology)

Capabilities
- Quick turn-around
- In-house prototyping

Resources
- 30 Engineers
  - Electrical
  - Mechanical
  - Software

LCD, TOPPERS & KIOSKS

LCD Production

Equipment
- Integrated toppers
- OEM open frame
- LCD integration
- Signage & custom assemblies
- Bid specification & RFQ

Capabilities
- 20,000 pieces per year

Resources
- 3 Engineers

PLASTIC INJECTION, TOOL & DIE

Direct Injection

Equipment
- 5 - CNC mills
- 5 - Lathes and grinders
- 1 - Wire EDM
- 28 Injection machines

Capabilities
- Sizes from 25-1,600 tons
- 20 million pieces per year
- 24-hour operation
- Insert & over-moulding
- Design to first shoot within 10 days
- 15 tools per month

Resources
- 65 dedicated staff
- +35 flex staff

PCB PRODUCTION

PCB Production

Equipment
- SMT high speed mounter
- SMT inspection
- Wave solder

Capabilities
- Surface mount
- Through-hole
- 150,000 boards per month

Resources
- 25 dedicated staff
- +15 flex staff

ASSEMBLY

Assembly

Equipment

- 12 - Conveyor lines
- 30 - Workstation cells

Capabilities

- 50 assemblies per hour, per line/cell
- Service and Repair
- Assemblies with up to 1,000 components

Resources

- 100 dedicated staff
- +100 flex staff

QUALITY ASSURANCE

Quality

Highlights

- ISO 9001
- Testing services and capabilities

Resources

- 30 FTEs in area of quality control and assurance

Manufacturing and Distribution Facilities

Manufacturing Site China

- Zhuhai, China
- 12,000 sqm
- 250 employees
- Turnkey design / manufacture
- Interactive touch displays
- Transparent LCD technologies
- Cash handling technologies

- Printers, card/barcode readers, NFC/RFID, cameras
- Kiosks, loyalty and betting terminals
- Digital signage
- LED lighting and back lighting technologies

Manufacturing and Distribution Site North America

- Mount Prospect, IL and Las Vegas, NV production locations
- Over 6,000 sqm
- Assembly, Distribution, Service and Support

- Cash Management Solutions: Note recyclers, coin recyclers, deposit safes
- Components & OEM: Joysticks, buttons, coin doors, LCDs, reel mechs, toppers, game controls

Manufacturing Site Poland

- Poznan, Poland
- Over 5,000 sqm
- 60 employees
- Components: Coin validators, coin recyclers

- Solutions: Change machines, cash points for self-service laundrettes, car wash starter systems, cash handling solutions

Assembly and Logistics Hub Netherlands

- Oud-Beijerland, Rotterdam
- 49,000 sqm
- Fully bar-coded warehousing

- Real time data processing systems
- Accurate reporting of inventory
- Excellent customer service

R&D Capabilities

Investment in research and development is a top priority

Global product management teams meet continuously to develop new products and custom solutions for customers' ever-changing needs. Dedicated industrial, mechanical, and electrical engineering teams provide complete design, as well as component selection. SUZOHAPP utilizes contemporary modelling technology to produce accurate designs with competitive costs and short lead times.

Technology Centres

NCS Technology Centre
- Cash management solutions and components
- Gaming and Amusement controls
- Custom OEM solutions
- Cashless payment systems
- Software

EMEA Technology Centre
- Cash management solutions and components
- Cashless payment systems
- Car wash control systems and laundry cash points
- Displays
- Software

APA Technology Centre
- Displays
- Self-service automation and software systems
- Mechanical systems
- Electrical controls and tool design

STS

SUZOHAPP's Research & Development team is centralized into one global engineering centre of excellence, SUZOHAPP Technology Services (STS). This highly skilled department develops and supports the company's core technology, accelerates new product development and leads the introduction of innovative technologies.

Design activities and expertise provided include:

- Turnkey design/manufacture of individual parts to complete machines - from concept development through final, highly engineered solutions
- 2D and 3D CAD Design – using SolidWorks for part/assembly modelling and drawings
- Metalwork/plastic design and electrical/wiring harnesses, virtual and physical prototyping, and product renderings
- Design of injection moulds and tooling
- Rapid prototyping through in-house 3D printing capabilities
- Proprietary electronics and PCB Design using the leading software package Altium
- Programming for microprocessors and Advanced Risk Machines (ARM, software development in most operating systems including Windows, Linux and Android OS
- Compliance testing and documentation, including UL

Examples of some of the technologies SUZOHAPP works with:

- The latest LCD and touchscreen technologies, including projective capacitance
- LED lighting and back lighting technologies
- Embedded micro controllers and CPUs
- Electromechanical and mechanical systems

SUZOHAPP's dedicated team has been central to the success of many product deployments to the global amusement, gaming, industrial, transportation and vending markets.

Projects have included:

- LCD retrofit integration
- Custom designed displays, including transparent LCD technology
- Interactive touch displays, large and small
- Cash handling technologies
- Printers, card/barcode readers, NFC/RFID, cameras
- Kiosks, loyalty and betting terminals
- Digital signage

Workshop Service

Highly experienced lab technicians can repair parts to component level, utilizing the latest diagnostic equipment and techniques. SUZOHAPP can also redesign, re-engineer, restore or re-manufacture parts and components reducing your business maintenance costs.

Repair Services

- Electronic gaming machines
- Jackpot systems and player tracking hardware
- POS systems, ATMs, self-service terminals
- Cash handling – bill acceptors, coin mechanisms, hoppers
- Data scanners, PDAs, PC mainboards, logic boards
- LCD displays, touchscreens
- LCD and CRT monitors, power supplies
- Electronic assembly and manufacturing services
- Electronic kiosks
- Wagering terminals
- Other electro-mechanical assembly work

SUZOHAPP technicians are highly skilled

- IPC certified specialist technicians ensure the highest quality in surface mount, hole through and wave soldering
- Experienced in repairing multilayer boards
- Ability to perform circuit programming (FPGA, JTAG) and program microprocessors (TQFP, SSOP, EPROM)

SUZOHAPP technical experts:

- Re-work and re-flow BGA ICs
- Give logic boards, main boards and A-D boards a new lease on life
- Refurbish circuit boards for most popular gaming machines and electronic equipment
- Repair bill validators, ticket printers, hoppers and coin mechanisms, giving considerable savings compared to the cost of replacement

Kiosk

Touchmonitors

Barcode Scanners

Printers

Speakers and Amplifiers

LED Light Strips

Cooling Fans

Door Switches

Locks

Power Supplies, USP, Line Filters

Simplify your sourcing with our broad product

Vending

Touchmonitors and
Secondary Displays

Pushbuttons and
Digital Panel Systems

Locks

Power
Supplies

Cooling
Fans

Open loop
Cashless Systems

Bill Validators
and Recyclers

Closed loop
Cashless Systems

Coin Validators
and Recyclers

Doors
Switches

range, local resources, and global capability

Ticketing

TICKETS

Touchmonitors and
Secondary Displays

Pushbuttons

Barcode
Scanners

Printers

Speakers
and Amplifiers

Locks

Power Supplies

Coin Validators
and Recyclers

Open loop
Cashless Systems

Bill Validators
and Recyclers

Hoppers

Doors
Switches

Cooling Fans

Bill-to-Bill™ Range
The Most Efficient Currency Management System Designed to Validate and Recycle Banknotes

The Bill-to-Bill™ is a fully integrated, high-security, frontloading system that utilizes advanced bill recycling technology for cash and cashless transactions. Bill-to-Bill™ banknote recyclers provide all-in-one automated cash management solutions that optimise the cash-in-transit and revenue collection operations. By adopting banknote recyclers, operators can achieve higher customer throughput, higher cash replenishment rates and lower cash-in transit costs.

Bill-to-Bill 300™ | Bill-to-Bill 300 XE™ Recycler | Bill-to-Bill TD™ Top Dispenser | Bill-to-Bill ST™ Stackerless

Bill-to-Bill 300™
Intelligent Bill Recycling

The Bill-to-Bill 300™ is the multi-width front load bill recycler 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.

| Best in class 3-denomination recycling | True modular design and field upgradability | Field proven reliability with 15,000+ unit installed base |

98% + first time insertion acceptance rate. Acceptance speed: 2.3 seconds per banknote

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 recycling cassettes (each cassette holds up to 100 notes): "smart" cassettes save content information for easy swapping, individually configurable to any denomination

Multi-note dispenser for dispensing up to 20 notes in bulk

Industry's first self-centering mechanism

Bill acceptance: lengthwise in 4 directions

Barcoded coupons: 2 ways face up (encoding standard: ANSI/AIM BC2-1995, Uniform Symbology, Interleaved 2 of 5)

Anti-stringing protection

Up to 2 high-security locks protecting 1000-note metal cashbox contents (one additional lock to lock cashbox to device)
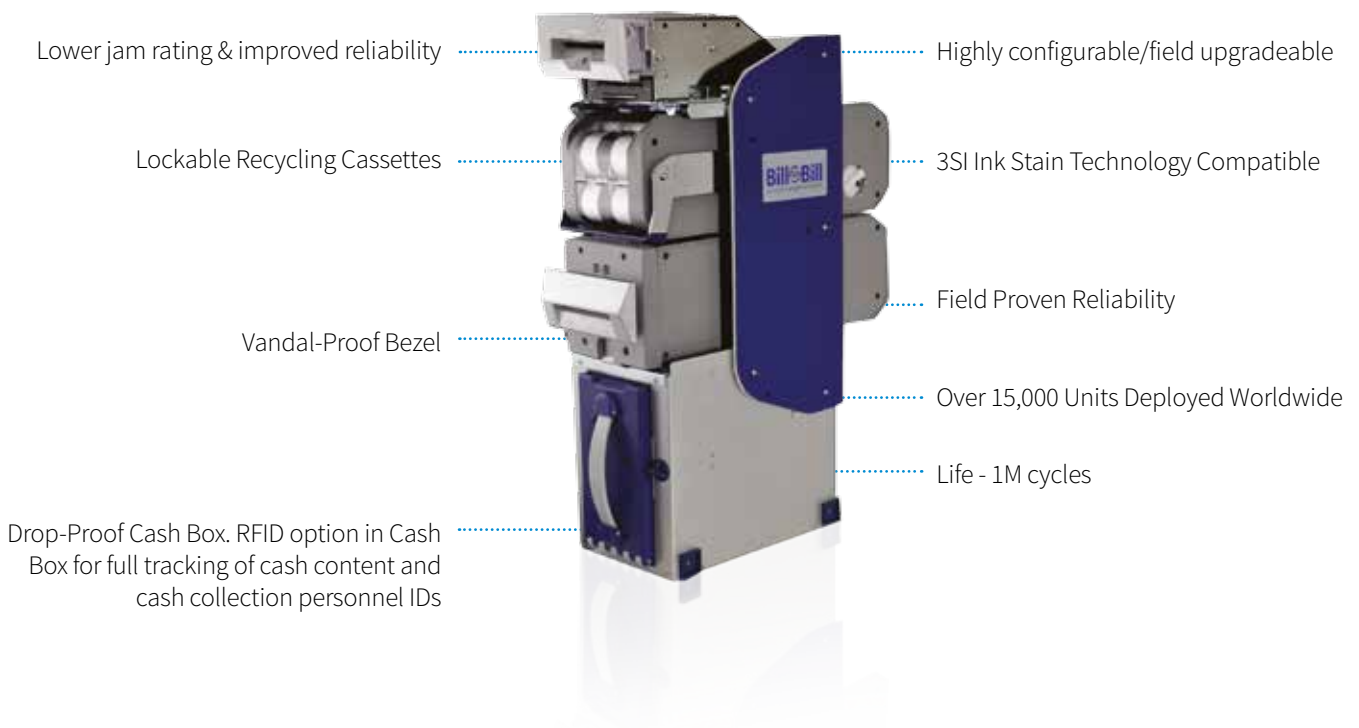
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Bill to Bill™

Bill-to-Bill XE™
Advanced Technology For Fare Collection

Bill-to-Bill XE™ is an innovative bill validator with patented technology allowing for high acceptance rates and a superior counterfeit detection. It validates, recycles and dispenses banknotes reducing the overall cash on hand and the operating costs. A system of custom high-security locks, RFID tracking, and external bezels protect cash when in TVM, during maintenance, and during transportation.

Features

▶ **Validation technology**
Optical, capacitive and inductive sensor technology

▶ **Sensors**
Patented optical, inductive, dielectric and cross channel

▶ **Bezel**
Choice of single metal bezel or dual bezel design

▶ **Sense-a-Click™** sensor pack
Four version as are available depending on currency set

▶ **Dispensing Cassette**
Dispenses up to 20 bills in bulk

▶ **Multi-escrow application**
All validated bills will be directed from the validating head into the recycling cassette

▶ **High impact resistant cash vault**
Durable, metal chassis

▶ **MCBJ** 1:20,000, for any situation that requires a service call

Lower jam rating & improved reliability ········ Highly configurable/field upgradeable

Lockable Recycling Cassettes ········ 3SI Ink Stain Technology Compatible

Vandal-Proof Bezel ········ Field Proven Reliability

········ Over 15,000 Units Deployed Worldwide

········ Life - 1M cycles

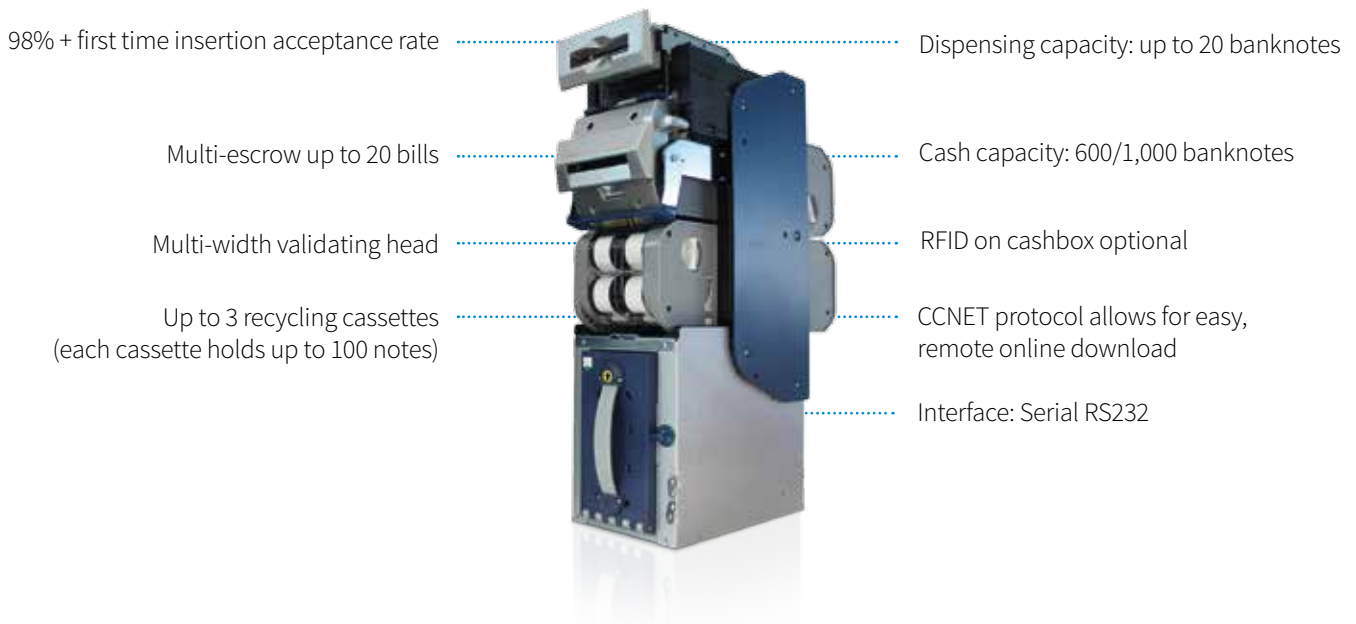Drop-Proof Cash Box. RFID option in Cash Box for full tracking of cash content and cash collection personnel IDs

Up to 3 Recycling Cassettes
(each cassette holds up to 100 notes)

✓ "Smart" cassettes save content information for easy swapping
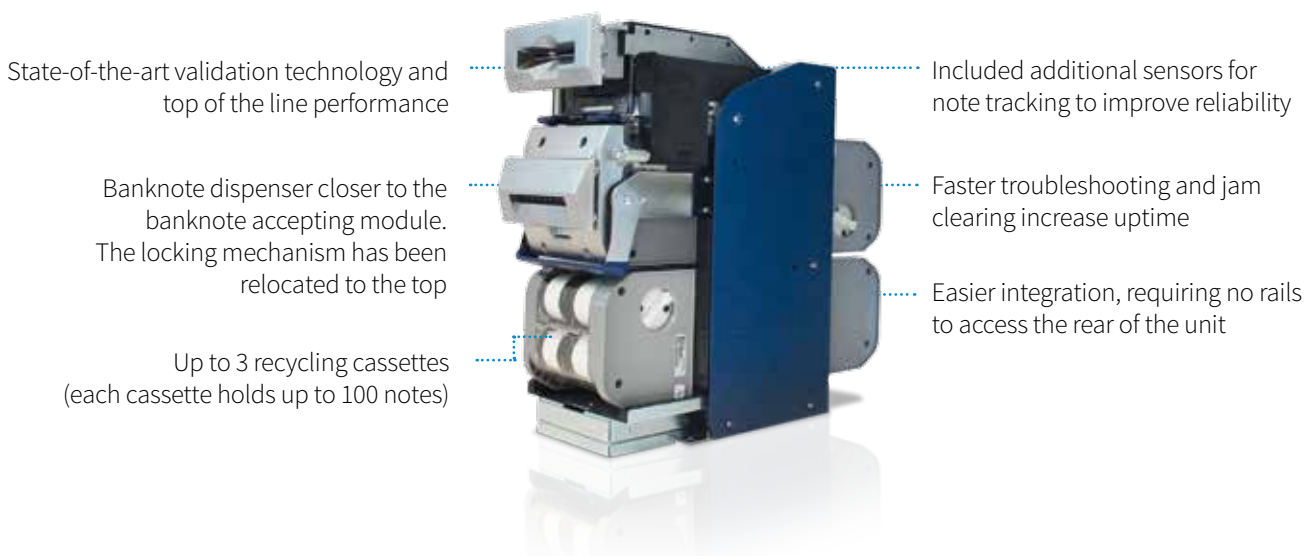✓ Individually configurable to any denomination

Bill-to-Bill TD™ Top Dispenser

Ideal for fare collection, Bill-to-Bill TD™ Top Dispenser recycles up to three denominations and dispenses multiple banknotes in one operation, with a great choice of bezels and easy firmware updating using the memory card or through the host. The banknote dispenser has been moved up closer to the validating module to satisfy the law requirements and to give a user-friendly experience during the transaction, by requiring the customer to reach a shorter distance between the two openings.

98% + first time insertion acceptance rate

Multi-escrow up to 20 bills

Multi-width validating head

Up to 3 recycling cassettes
(each cassette holds up to 100 notes)

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

Bill-to-Bill ST™ Stackerless is the smallest banknote recycler that maintains one of the highest recycling capacity. It is the first 3 denomination banknote recycler with free-fall capabilities. Bill-to-Bill ST™ Stackerless offers an easy upgrade path from a single note recycler to a full 3 note recycler with escrow functionality to provide flexibility.

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

Up to 3 recycling cassettes
(each cassette holds up to 100 notes)

Included additional sensors for note tracking to improve reliability

Faster troubleshooting and jam clearing increase uptime

Easier integration, requiring no rails to access the rear of the unit

MFL®

Industry's Most Reliable, Secure, Modular Design

MFL® is the 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.

Robust mechanism and beltless bill path

Aligning mechanism straightens the misaligned banknotes

98% or higher acceptance rate

Patented multi-sensor technology with self-calibration and removable sensor module

Barcoded coupons: 2 ways face up (encoding standard: ANSI/AIM BC2-1995, Uniform Symbology, Interleaved 2 of 5)

Supports multiple protocols and has a standard footprint

Updates by smart-stick memory card or host machine

Lockable and secured cash box

Cash box: 600 or 1,000 banknote capacity that can be secured on housing and supports 2 locks on door

Vandal-proof metal bezel: up-stack or down-stack, IP24 compliant, ideal for outdoor applications

Plastic bezels: running light, digital display, standard, Bat and Konami

Vantage
Increase Your Profits with the Vantage Advantages

Vantage bill validator is an industry-leading solution with a host of advanced features for highest in-service time. Extremely robust and flexible, Vantage is designed to enhance operator business by maximizing profitability.

Highlights:

▶ Advanced bill image processing and dynamic sensor calibration offers industry leading bill acceptance and fraud protection

▶ Proprietary Smart Bezel increases sales by actively communicating $1, $5, $10, and $20 bill acceptance in real time

▶ Quick-release bezel speeds installation and removal, improving access while reducing service costs

▶ Three levels of anti-stringing technology provide superior cheat resistance

▶ Capture new customers with eye-catching impulse lights

▶ Sculpted 360° illuminated bezel offers ease of bill insertion

▶ Automated self-diagnostics ensure optimal performance resulting in fewer service calls

Patented note path lockout provides high security Level Three stringing and fishing protection

FlexStack™ bill box expands up to 500 bills

Tool-free disassembly eases service

Smart Bezel™ actively communicates bill acceptance

Quick-Release Bezel speeds installation and removal

Status indicators simplify setup and troubleshooting

More Profitable
New features to increase your in-service time and sales.

▶ Centric driver roller provides highest acceptance rates for skewed bills

▶ Automated self-diagnostics and visual bezel notification guarantee your validator is always ready to accept cash

▶ Smart Bezel™ increases sales by communicating $ 5, $ 10 and $ 20 bill. Multiple acceptance in real time

More Robust
Innovative technologies enhance reliability and security.

▶ Fourteen sensor pairs scan more of the bill. Multiple analysis technologies increase acceptance while eliminating frauds

▶ Streamlined bill path and intelligent bill transport software reduces jam conditions providing highest in-service time

▶ Level Three Cashbox Lockout Technology provides industry leading security by completely blocking bill path access to the cashbox

More Flexible
Easier to install, service and update.

▶ Quick-release bezel expedites installation and removal, even for tight installations

▶ Tool-free disassembly eases service. Illuminated bezel and status indicators simplify setup and troubleshooting

▶ FlexStack® cashbox holds over 500 bills. It maximizes bill capacity and reduces machine visits

▶ Broad range of support tools and accessories to meet your specific application

currenza C²

Currenza C²
## Reduce your machine downtime and increase revenues

Currenza C² represents the latest innovation in coin acceptance and recycling technology. Thanks to the PRP (Payout Redundancy Protection) system, six tubes and three independent motors, it delivers superior results to vending operators in terms of high coin capacity, excellent payout reliability and maximum configuration flexibility. Currenza C² takes cash management to the next level by maximizing operators' profits and reducing machine downtime.

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

▶ 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

▶ Easy access to validation and sorting area for maintenance

Optional accessories

▶ External box to connect Currenza C² to small automatic and semi- automatic vending machines
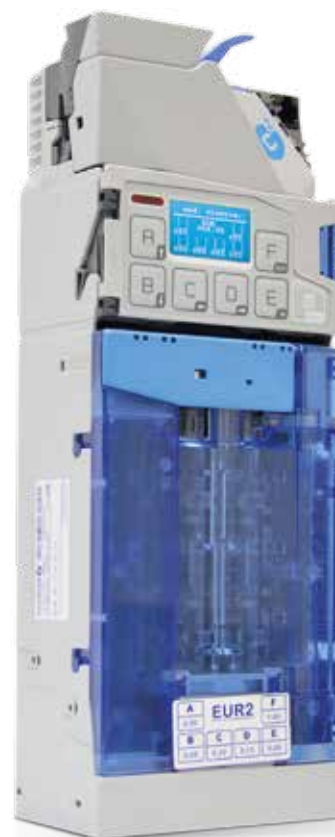
PRP System
(Payout Redundancy Protection)

6 tubes cassette and 3 indipendent motors for high payout safety and the minimization of down time

Versions

▶ **Blue (EXE, MDB)**
with display and keys

▶ **White (MDB)**
without display and keys

![Comestero logo]

RM5 HD
Extreme reliability, remarkable acceptance speed and high versatility

The RM5 HD coin validator has set new reference standards in coin validation. Through 5 different sensors and 10 recognition parameters, it ensures a high level of recognition and discrimination of valid and counterfeit coins with an unprecedented speed of up to 6 coins per second.

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

USB version also available

Advanced electronic and mechanical anti-fraud system: electronic anti-fishing device, coin movement direction detection, 3 mechanical traps, and wire cutting blade

Tropicalised version also available for environments affected by adverse weather conditions

Over 2 million Comestero coin mechanisms installed!

RM5 Evolution
The record-breaking coin validator

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

3 pairs of inductive sensors for processing 6 different parameters regarding the material and the mass

3 pairs of optical sensors for determining the coin's diameter

Identification channels: up to 59, each of which can be redirected to the outlets. The first 6 support Self-Prog mode

A mechanical and electronic anti-fishing device

Serial interface for external connections (portable programmer or PC)

Credit recognition: parallel, binary, pulse

Comestero

Coin Sorters

CINCO

Coin sorter with 5 sorting paths plus reject mechanism specifically designed to satisfy the requirements of any type of gaming machine. It can be installed both on machines operating in ccTalk and in parallel, allowing switching modes with ease.

SPS41LCC4

Coin sorter with 4 in-line sorting paths and reject placed over the third sorting outlet.

SPS31LCC3

Coin sorter with 3 in-line sorting paths and reject placed over the third sorting outlet.

SPS31SCC3

Coin sorter with 3 in-line sorting paths and reject placed over the last sorting outlet.

SPS300CC3/VER-B

Coin sorter with 3 in-line sorting paths and a bottom reject mechanism.

SPS300CC3

Coin sorter with 3 in-line sorting ways and front reject.

ICS (Intelligent Coin System)
The Innovative Coin Handling Device

The ICS is a revolutionary coin handling device 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 the world's first currency solution able to be integrated into machines from diverse markets including parking ticket machines, self-checkout stations, money changers, kiosks and vending. 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.

NEW

Compact design sensor

Wide coin diameter and thickness range

High capacity 1,300 mixed coins*

Simultaneous 4 coin payout per cycle (max 4 coins per second)

Up to 8 different denominations managed at the same time

Easy access for maintenance

Customizable for country specific coin mix

Ready to dispense buffer of coins per denomination

* value can change according to currency

Compact design:
one product that works as 8 hoppers
+ 1 sorter

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

Cube Hopper
High Speed Single Denomination Hopper

The Cube Hopper has an expandable hopper capacity and is made from extremely strong, wear-resistant plastics. With one configuration it covers different coin sizes, and in case of conversion the disc can be replaced in seconds to convert the denomination of the hopper. The hopper is square and easy to mount by means of standard mounting bracket. By using an unique "Sun & Planet" gearbox system, this hopper offers the possibility to contain and count (with two extensions) over 1,200 coins of ø 24 mm. The hopper is protected by an auto-reverse anti-jam system and has an indirect optical readout with a continuous monitored optic sensor control. A low-level detection is integrated in the coin cup. A Dual Hopper version is also available which can payout two different types of coins.

Standard 350 coins capacity (ø24 mm)

Coin cup extensions available (optional) which increase capacity up to average 400 coins per extension (ø24 mm) (maximum 2 extensions up to 25.6 mm)

High payout speed dispensing: up to 400 coins per minute

A low-level detection integrated into connector as standard

Flow Hopper
Innovative Through-Hole Hopper

The innovative electronics and high-resistance plastic materials ensure durability over time. Available in two interfaces – standard parallel and ccTalk serial. Supplied with quick-release plate.

Integrated fall tube for simple dual-hopper cabinet construction

Clean design – no external wires run for level sensors

ccTalk version is available in encrypted and non-encrypted modes

Reliable through-hole coin disk design

Low level sensor and anti-jam feature

3 DIFFERENT COIN BOWL SIZES
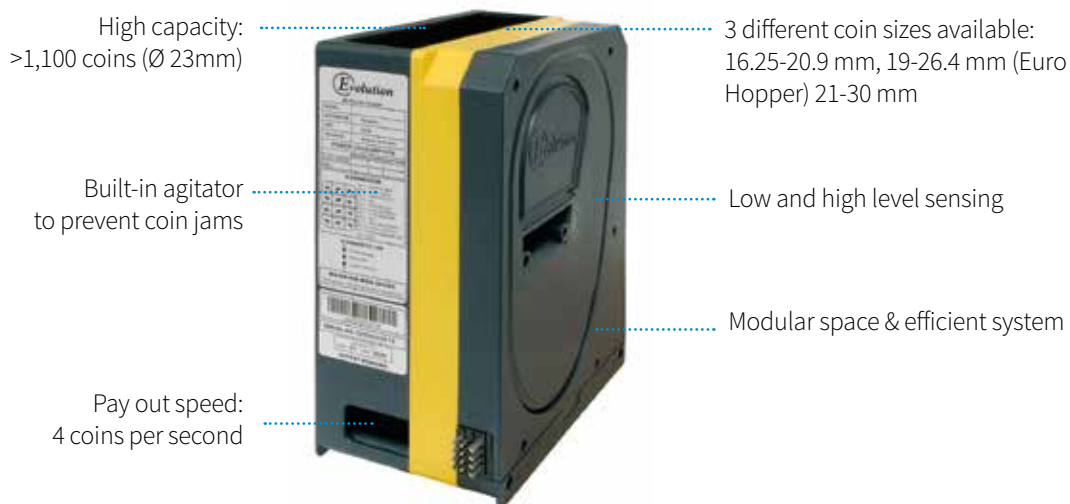
Medium cup   Intermediate cup   Large cup

Evolution Hopper
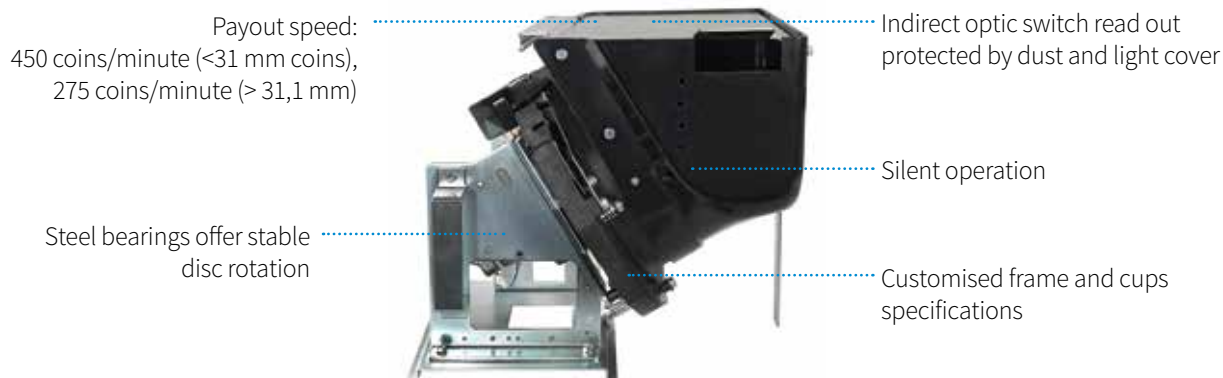## High Dispensing Speed and Reliability Come Together

Based on a belt drive, Evolution Hopper is excellent in terms of both performance and ease of maintenance. The unique concept provides a single build type hopper that is suitable for 95% of the world's coins and tokens without needing adjustments. A large DC motor in combination with an electronic motor control board yields reduced friction and motor noise. The optic board is easily accessible by removing the electronic control board from outside the hopper.

High capacity:
>1,100 coins (Ø 23mm)

Built-in agitator
to prevent coin jams

Pay out speed:
4 coins per second

3 different coin sizes available:
16.25-20.9 mm, 19-26.4 mm (Euro Hopper) 21-30 mm

Low and high level sensing

Modular space & efficient system

Excel Hopper
Extremely Durable and Service-Friendly

Its gearbox system design provides advantages such as maximum torque with minimum power consumption, unique bayonet motor connection for easy motor replacement, and an easily-accessible coin exit. Available with 3 different bowls: standard bowl, wide or narrow bowl and extended bowl.

Payout speed:
450 coins/minute (<31 mm coins),
275 coins/minute (> 31,1 mm)

Steel bearings offer stable
disc rotation

Indirect optic switch read out
protected by dust and light cover

Silent operation

Customised frame and cups
specifications

Coin carousel WGR

The WGR coin carousel 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 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.

Features

▸ LiFo (Last-In/First-Out) function

▸ Coin overflow to the cash box

▸ 3 optical sensors for coin entry, motor and shutter positions

▸ 3 coin channels for acceptance, overflow and reject

▸ Easy way to insert several WGR carrousels 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

P68
The Cashless Solution for the Unattended Market

The P68 is a flexible solution for all environments, designed for unattended points of sale, such as Food or Soda vending machines, carwash stations, parking machines etc. The P68 terminal supports all cards for secure, fast and convenient payments. It supports all types of cards; credit and debit cards and a broad range of loyalty cards which are based on magnetic stripe.

All-in-one terminal

▸ Contactless (Tap)
▸ Chip /Contact (Dip)
▸ Magnetic stripe (Swipe)

▶ Start Button

With EMV transactions (MasterCard, VISA, Maestro) it is required that the customer can make a product selection prior to tapping the payment card or phone. It is not allowed to require a support this process flow and require a balance prior to a product selection. SUZOHAPP offers the unique 'start' button solution, which enables the Vending machine without expensive software upgrades or modification to the machine. If your machine supports preselection of products or service a version can be provided without button.

▶ Communication methods

To process the transaction the terminal needs to connect to the Bank via an Internet connection. Every terminal comes standard with a LAN connection; this is also the preferred connection method.

If there is no LAN connection available, a GPRS Modem can be delivered; the GPRS Modem is integrated in the rear of the terminal. You get the Most Consistent & Reliable Results by placing the antenna on top of the vending machine. An optional External Mount Dome Antenna can be provided to help with Performance & Security.
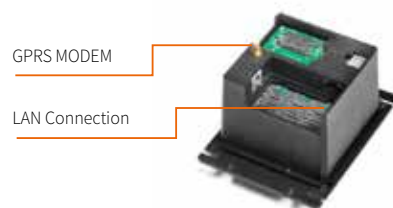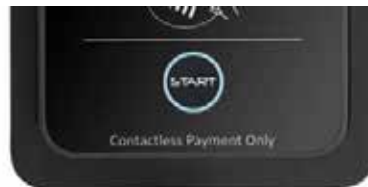
The Terminals support the following Payment schemes:

GPRS MODEM

LAN Connection

WorldKey Systems
Innovation in Cashless Management

The WorldKey range is composed of a wide array of Mifare® cashless systems that can fulfil any payment, activation, identification and recharging requirements. Designed to manage multiple applications, WorldKey systems are flexible, durable and reliable cashless payment solutions.

R&D by RFTech

Benefits:

Cash in advance The customer is paying today for the consumptions of tomorrow	Positive cash flow!
Pricing flexibility Set up prices at any value. No restrictions related to cash denominations or bank card transactions	Improves margins!
Fast payment at purchase 3 times faster than cash	Increases users spending!
Users differentiation Users ID inserted in the payment media can be linked to users data and customized product and rewards	Creates customer loyalty!
Product promotions Set up differentiated pricing by product through discounts or subventions	Boosts sales!
No transactions fee Credit uploaded through cash insertion at the machine or at independent loading stations	No recurrent cost!

WorldKey is the most complete cashless range in the market:

5 Models

WorldKey   WorldKey Lite   WorldKey Move

WorldKey UltraLite   EuroKey Next

3 Reading Heads

NFC READY

Moon   Sky   Galaxy

4 Customizable Payment Supports

Keys   Cards   Stickers

Tags

A private cashless payment system and powerful customer management tool

The WorldKey system is based on the Mifare® (standard, Plus, DesFire, NFC) technology platform which ensures high safety standards. Security in transferring data is ensured by the combination of the proprietary encryption Mifare® and RFTech TDES (Triple Data Encryption Standard). Operators can manage several sales or identification applications by storing them on a single RFID support (card/key/tag/sticker). WorldKey supports the most used protocols (Executive, MDB, BDV) and is ready to integrate the Ethernet, RS485, CAN BUS, ccTalk and USB interfaces.

Barcode Scanners

1 **2** **3** **4**

1 FM100

Features

Ease of integration
Designed for OEM applications, this high performance fixed CCD scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, (Reverse) Vending Machines and many more. The small form factor enables easy integration into various solutions. The FM100 has an IP54 rating meaning it is dust -and water resistant.

Advanced technology
Includes core-technology UIMG, which is independently designed and manufactured by Newland Auto-ID. UIMG technology includes the optical, CMOS, digitizer, decoder, image processing & embedded systems. The scanner supports all global standard 1D symbologies. Its reading performance reaches and exceeds global standards. By using the accessories provided, the user can ideally set up the scanner to its user environment.

1D | CCD | USB | RS232 | IP54

3 FM30 Grouper II Series

Features

Superior decoding performance
Your employees can scan virtually any barcode, including 1D and 2D, at an extraordinary speed.

Effortless scanning from mobile phone screen
Built to read from an LCD screen, the FM30 Grouper II Series can easily read barcodes from any mobile device screen. An extended capability of IR reading allows the device to detect barcodes under virtually any ambient light. Whether you operate at daytime or nighttime, scanning is quick and efficient.

Easily mounted in small spaces
The FM30 Grouper II Series is designed for businesses that require high performance and a minimal footprint. With its small size, the device is ideal for kiosk integration and other POS solutions.

Easy to install
The FM30 Grouper II Series can be set up quickly and easily. A plug-and-play simplicity enhances your experience right from the start. The device can be further configured according to your needs by using a simple barcode programming guide.

1D | 2D | CMOS | USB | RS232

2 FM430 Barracuda

Features

Megapixel camera
The FM430 Barracuda is a barcode scanning powerhouse. No matter what type of barcode is presented, the megapixel camera allows users to scan 1D and 2D barcodes, including very small ones, with impressive speed and ease.

Snappy, also in less than perfect conditions
A combination of the IR sensor and the light sensor helps to keep workers moving, even in low light conditions. Its strong, white light ensures barcodes are always well lit.

Handsfree or manual scanning
Companies looking for automatic scanning to relieve manual labor can set up the FM430 Barracuda for handsfree scanning. Alternatively, a manual trigger button can be used if preferred.

Intelligent programming
The sensors of the FM430 Barracuda automatically adjust the brightness of supplementary lighting based on the light that reflects off the barcode. This also makes it an optimal solution for scanning from mobile phone screens. Depending on the application, the scanner can be set to optimally read from close and long distance.

Reliable outdoor use
With an IP rating of 54, this fixed mount scanner can be placed in a housing and used outdoors without worrying about dust or moisture.

Bright laser aimer (optional)
The FM430 Barracuda is available with a red cross laser that makes scanning easy and intuitive, even for the most inexperienced users.

1D | 2D | CMOS mega pixel | Laser Aimer | IR | USB | RS232 | IP54 | 1.5M DROP

4 EM2037-V4

Features

Superior decoding performance
No matter what type of barcode is presented, the megapixel camera allows users to scan 1D and 2D barcodes, including very small ones, with impressive speed and ease. In addition to excellent scanning of high-density barcodes, the EM2037-V4 also provides the added value of decoding postal barcodes.

Advanced technology
The EM2037-V4 is powered by advanced imaging technology and Newland patented UIMG technology, a computerized image recognition system, can read barcodes printed on paper/plastic or displayed on mobile phones with excellent motion tolerance.

Powerful data editing capability
The scan engine allows customizing scanned data with ease and provides supporting software to address diverse application needs.

Compact & lightweight design
Seamless integration of imager and decoder board makes the scan engine very small, lightweight and easy for integration.

Various interfaces
The EM2037-V4 supports USB and TTL interfaces to meet customer needs.

1D | 2D | CMOS mega pixel | USB | TTL-232

 VisionPro™

High Quality LCDs for Gaming, Amusement, Sport Betting, Lottery, and Bingo

Touch and Non-Touch

VisionPro™ is SUZOHAPP's premium line of LCDs using top panel brands and high-quality boards. Fast customization is available for both OEMs and upgrades: 6.2" to 90", specialized panels and integration, customized metal, touchscreens and inputs.

Features:

- Standard sizes from 15" to 32"
- Choice of
  - 10+ touch Projected Capacitive (PCAP), true-flat, seamless edge-to-edge glass
  - 3M Surface Capacitive (SCAP) touch technology
  - Protective Glass
- Standard and wide viewing angle units available

- Common footprint for touch and non-touch variations
- DVI and VGA, HDMI and DisplayPort available
- LED options for surrounding display
- Economically priced
- 1-year standard warranty

VisionPro™

Model	Size/Aspect Ratio	Native Resolution	Viewing Angle	Panel Brightness	Contrast Ratio	Touch/Glass	Signal Input	Edge-Lit LEDs*	LED Type	Bezel
150TFT2154	21.5" 16:9	FHD	178 x 178	250	1000:1		VGA/DP			
150TFTG2154	21.5" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DP			
150TFTP2154	21.5" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DP			
150LG2150	21.5" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DVI	Integrated	RGB	
150LP2150	21.5" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DVI	Integrated	RGB	
150LG2152	21.5" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DVI	Integrated	Addressable	
150LP2152	21.5" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DVI	Integrated	Addressable	
150DLG2150	21.5" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DVI	External	Addressable	
150DLP2150	21.5" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DVI	External	Addressable	
150TFT2206	22" 16:10	1680 x 1050	178 x 178	250	2000:1		VGA/DVI			
150TFTG2206	22" 16:10	1680 x 1050	178 x 178	250	2000:1	Clear Glass	VGA/DVI			
150TFTS2206M	22" 16:10	1680 x 1050	178 x 178	250	2000:1	3M Serial Touch	VGA/DVI			
150TFTS2206MU	22" 16:10	1680 x 1050	178 x 178	250	2000:1	3M USB Touch	VGA/DVI			
150TFT2302	23" 16:9	FHD	178 x 178	250	1000:1		VGA/DVI			Yes
150TFTG2302G	23" 16:9	FHD	178 x 178	250	1000:1	Clear Glass	VGA/DVI			Yes
150TFTS2302MG	23" 16:9	FHD	178 x 178	250	1000:1	3M Serial Touch	VGA/DVI			Yes
150TFTS2302MU	23" 16:9	FHD	178 x 178	250	1000:1	3M USB Touch	VGA/DVI			Yes
150TFT2382	23.8" 16:9	FHD	178 x 178	250	1000:1		VGA/DP			
150TFTG2382	23.8" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DP			
150TFTP2382	23.8" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DP			
150LG2380	23.8" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DVI	Integrated	RGB	
150LP2380	23.8" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DVI	Integrated	RGB	
150LG2382	23.8" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DVI	Integrated	Addressable	
150LP2382	23.8" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DVI	Integrated	Addressable	
150DLG2380	23.8" 16:9	FHD	178 x 178	250	1000:1	Printed Glass	VGA/DVI	External	Addressable	
150DLP2380	23.8" 16:9	FHD	178 x 178	250	1000:1	PCAP USB Touch	VGA/DVI	External	Addressable	
150TFTG2414	24" 16:10	1920x1200	178 x 178	300	1000:1	Clear Glass	VGA/DVI			Yes
150TFTS2414M	24" 16:10	1920x1200	178 x 178	300	1000:1	3M Serial Touch	VGA/DVI			Yes
150TFTS2414MU	24" 16:10	1920x1200	178 x 178	300	1000:1	USB Touch	VGA/DVI			Yes
150TFT2705	27" 16:9	FHD	178 x 178	300	3000:1		VGA/DP			
150TFTG2705	27" 16:9	FHD	178 x 178	300	3000:1	Printed Glass	VGA/DP			
150TFTP2705	27" 16:9	FHD	178 x 178	300	3000:1	PCAP USB Touch	VGA/DP			
150TFTP2705S	27" 16:9	FHD	178 x 178	300	3000:1	PCAP Serial Touch	VGA/DP			
150LG2700	27" 16:9	FHD	178 x 178	300	3000:1	Printed Glass	VGA/DVI	Integrated	RGB	
150LP2700	27" 16:9	FHD	178 x 178	300	3000:1	PCAP USB Touch	VGA/DVI	Integrated	RGB	
150LG2702	27" 16:9	FHD	178 x 178	300	3000:1	Printed Glass	VGA/DVI	Integrated	Addressable	
150LP2702	27" 16:9	FHD	178 x 178	300	3000:1	PCAP USB Touch	VGA/DVI	Integrated	Addressable	
150DLG2700	27" 16:9	FHD	178 x 178	300	3000:1	PCAP Printed Glass	VGA/DVI	External	Addressable	
150DLP2700	27" 16:9	FHD	178 x 178	300	3000:1	PCAP USB Touch	VGA/DVI	External	Addressable	
150TFT3210	32" 16:9	FHD	178 x 178	350	3000:1		VGA/DVI			
150TFTG3210	32" 16:9	FHD	178 x 178	350	3000:1	Clear Glass	VGA/DVI			

Notes:

· Specs and drawings, manuals, and CAD files are available upon request.

· The standard models above can be used as a basis for customization. Many other options are available i.e. video inputs including Display Port (DP), DVI, HDMI, customized touchscreens with serial or USB, customized metal, paint and logos, different panels and video resolutions, outdoor and vandal resistance options, and extended warranties.

· Please inquire for other sizes and variations.

Elo Touch Solutions
Open Frame Monitors

Brilliant Display. Superior Quality. Competitive Price.

Engineered and designed specifically to perform in some of the most demanding, high-touch environments, the 90-Series open-frame displays feature touch technology that is built-in rather than glued-on. Elo is the world leader in commercial touch with over 20 million installations, half a million units per years, nearly 2,000 units per day.

> Select from a wide range of sizes from 10" to 27" to fit in your environment. Other Elo products extend the range to 70".

> Only Elo produces the touchscreens, controllers, drivers, and monitors for a complete solution proven in over 20 million installations worldwide.

Take advantage of these great features:

- Next generation Projected Capacitive (PCAP) 2GS technology (2 glass solution)
- Highest optical quality and longevity as no plastic films, no metal mesh
- 10-touch true-flat solution
- Thru-glass mode which operates through up to 6 mm customer-supplied glass
- Common mechanical and electrical components across the line for easy design-in, compliance testing, service, and transition between sizes
- HDMI, DisplayPort, VGA inputs, with common port design across all units

- Built-in watertight edge seal
- Magnetic tethered OSD control box
- Unique field-replaceable touchscreen glass design
- Global agency approvals: United States UL, FCC; Europe CE TÜV; Australia RCM; Canada cUL, IC; China CCC; Japan VCCI; Korea KCC; Mexico CoC; Taiwan BSMI; International CB; RoHS
- Passes UL and IK07 Ball Drop tests
- 50,000 hour demonstrated MTBF
- 3-year standard global warranty

elo

New sleek finished enclosure

Model	Diagonal size	Aspect ratio	Contrast ratio	Brightness (panel)	Viewing angle	Native resolution
1093L	10.1"	16:10	800:1	350 nits	85°/85° or 170°/170°	1280 x 800 at 60Hz
1291L	12.1"	4:3	1500:1	450 nits	89°/89° or 178°/178°	800 X 600 at 60Hz
1590L	15"	4:3	800:1	300 nits	80°/70°- 80° or 160°/150°	1024 X 768 at 60Hz
1593L	15.6"	16:9	500:1	300 nits	80°/80° or 160°/160°	1366 x 768 at 60Hz
1790L	17"	5:4	1000:1	250 nits	85 °/80° or 170°/160°	1280 x 1024 at 60Hz
1990L	19"	5:4	1000:1	250 nits	85°/80° or 170°/160°	1280 x 1024 at 60Hz
1991L	19"	5:4	1000:1	250 nits	89°/89° or 178°/178°	1280 x 1024 at 60Hz
2094L	19.5"	16:9	3000:1	250 nits	89°/89° or 178°/178°	1920 x 1080 at 50, 60Hz
2293L	21.5"	16:9	1000:1	250 nits	85°/80° or 170°/160°	1920 x 1080 at 50, 60Hz
2294L	21.5"	16:9	1000:1	250 nits	89°/89° or 178°/178	1920 x 1080 at 50, 60Hz
2494L	23.8"	16:9	3000:1	250 nits	89°/89° or 178°/178	1920 x 1080 at 50, 60Hz
2794L	27"	16:9	3000:1	300 nits	89°/89° or 178°/178	1920 x 1080 at 50, 60Hz

10" to 27" desktop touchmonitors, All-in-Ones and interactive digital signage from 10" to 70"

SUZOHAPP also distributes the complete line of Elo Touch Solution products — seen in interactive kiosks, point-of-sale terminals, interactive retail displays and transportation applications around the world.

NANOPTiX

PayCheck® Terminal XL™
Your Sport Betting Hardware Solution

PayCheck® Terminal™ is the world's first Kiosk terminal powered by a TITO printer. Taking advantage of the power and uniqueness of the Paycheck® NextGen™ printer, we created a Linux based terminal for your gaming, lottery and retail applications.

NEW

Built on the
PayCheck® NextGen™ Platform

Smart card reader with RFID

Linux based Software
Development Kit (SDK)
to implement your applications

USB on-the-go, MicroSD reader,
Ethernet, Bluetooth

10 inch full-colour LCD screen

Lockable standard
800 Ticket Tray TITO paper

Optional Secure PIN Entry (SPE)
module for banking

High performance 1-D and 2-D
bar code scanner

Optional self standing kiosk
with Bill Validators

Small footprint (335mmx150mm)

Benefits

- Variety of applications:
    - Validation Terminal Station
    - Bill to TITO printout Kiosk
    - Payment Kiosk
    - Players Loyalty Kiosk
    - Pull Tab Kiosk
    - Self-Serve Terminal far Lottery
    - Promotional Kiosk
- New OS-2.0 allows for faster and more responsive hardware
- Barcode Scanner: scans, takes picture and can record video
- Built-In speakers allows for audio content
- New 10" Multi Touch screen for better readability
  and cleaner fonts for all demographics
- High Definition (HD) Quality Content
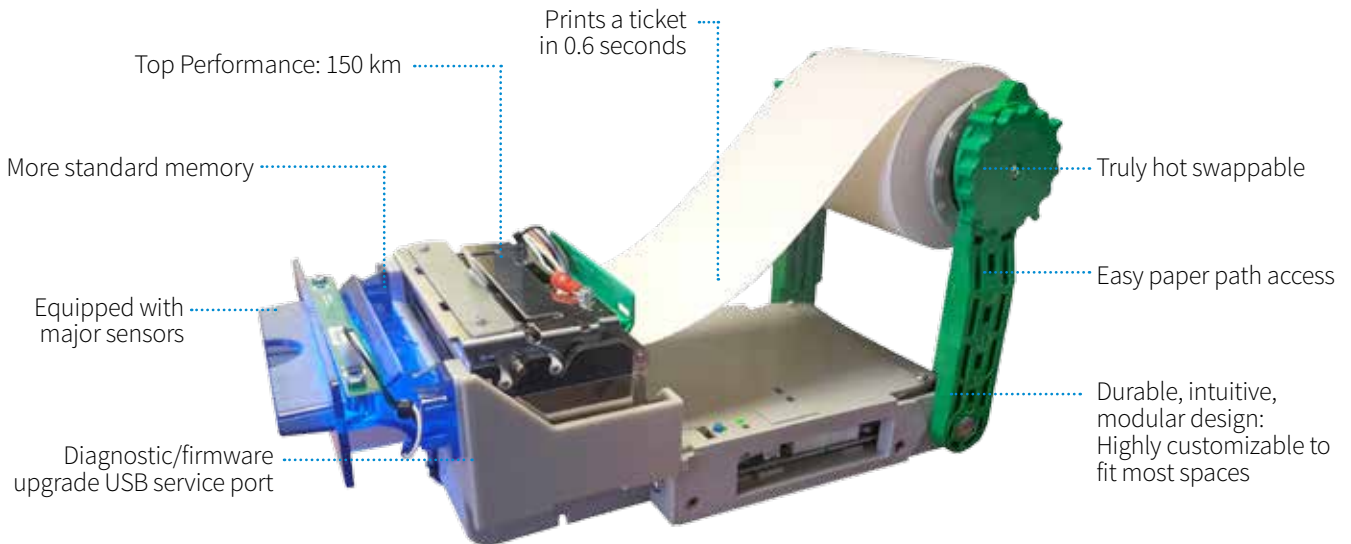- SDK compatible with your GMS provider and/or
  marketing promotional provider

- Ideal for desktop or self-serve application
- Maximizing space with its small footprint
- Networkable
- Advertise your services easily
- Reduce downtime with large ticket capacity

NANOPTIX

HSVL Advanced™

HSVL
Advanced™

The HSVL Advanced™ (High Speed Video Lottery) printer provides manufacturers ultimate flexibility and outstanding reliability. By using innovatively-designed movable spindle arms the HSVL Advanced can adapt to any kiosk design.

- Top Performance: 150 km
- Prints a ticket in 0.6 seconds
- More standard memory
- Truly hot swappable
- Easy paper path access
- Equipped with major sensors
- Diagnostic/firmware upgrade USB service port
- Durable, intuitive, modular design: Highly customizable to fit most spaces

Benefits

- Greater customer satisfaction
- Better reliability and lower overall cost
- Lets you personalize with fonts, images and logos
- Able to replace paper with little or no down time
- Reduces paper jams for more uptime
- Easy replacement without powering down
- Makes maintenance fast & easy
- Gives easy access to all major components
- Allows for easy field service and upgrades
- Usable in all jurisdictions worldwide

Configurable options

- Horizontal
- Vertical (with extra bracket)
- Upside down
- Board separate

Illuminated jamming resistant bezel

Upside down (with extra bracket)

NANOPTiX

EZ-Tear™

EZ-Tear™

The EZ-Tear™ printer provides manufacturers flexibility while remaining compact and reliable. Built with modularity in mind, the EZ-Tear™ printer will fit many types of cabinets and with its clamshell design, provides easy access for paper loading.

Self-tear system, "V" shape blade

Quiet, high-speed, high-quality print mechanism: 100 km

Windows driver

Compact clamshell design: Ideal for all types of cabinet

Illuminated jam-resistant bezel

Truly hot swappable

Easy paper path access: Easy maintenance

Diagnostic/firmware upgrade USB service port

Durable, intuitive, modular design

Benefits

- Lower cost of ownership
- Better reliability & customer satisfaction
- Print directly from any Windows O/S
- Provides easy paper loading
- Reduces paper jams for more uptime
- Easy replacement without powering down
- Fast & easy maintenance
- Easy access to all major components
- Easy field service and upgrades
- Usable in all jurisdictions worldwide

Configurable options

- 65 mm or 80 mm
- Compact
- Compact + Bezel
- Base Plate + Spindle
- Base Plate + Spindle + Bezel

Modular design

Unique illuminated jamming resistant bezel

Base plate + spindle

NANOPTIX

"Spill-Proof" Thermal Printer

It's fast, quiet, efficient, affordable and easy to use. Best of all, its patent-pending spill-proof design means never having to worry about OOOPS again. IEC60529, IPX3 spillage approved.

Windows driver available

Patent-pending
spill-proof design
protects your investment

Standard command
set (ESC/P)

Exceptionally small
footprint

Direct thermal 8 dot/mm
(203 dpi) resolution

Interface: serial & USB
or parallel & USB

Quiet, high-speed
print mechanism

"Spill-Proof Cuts" Printer

"Spill-Proof Cuts" protects your printer from potentially costly liquid spills and it also quickly and efficiently "cuts" the paper for maximum ease of use.

Easy paper loading to get you back in
business quickly

Patent-pending
spill-proof design
protects your investment

Easy to service – reduces downtime

Provides clean partial
cuts for ease of use

Quiet and high-speed printing

Industry leading print mechanism

Prints twice as fast as
competitive models (10 inches/
second vs. 5 inches/second)

Windows driver available

Outstanding small footprint

Emulation available for most
popular printers

Built-in power supply

Dynamic Panel Systems

SUZOHAPP's Dynamic Panel Systems (DPS) feature the latest innovation in pushbuttons - all the adaptability of touch screens with the tactile satisfaction of mechanical pushbuttons. We remove the limits of standard LCD pushbuttons in both shape and content, utilizing a single LCD with a unique fibre optic conduit to elevate the image to the surface of the injection moulded plastic lens cap. Easily program the entire deck at once with dynamic and configurable content allowing for unprecedented interaction with customers.

Future-proof your user experience with SUZOHAPP Dynamic Panel Systems!

Self-labeling buttons without the complexity or cost

Touchscreen flexibility, with familiar tactile feel

Optional illuminated RGB bezel

Confidence and speed of a physical button

Excellent visibility without glare or distortion

Interfaces: VGA, DVI-D or LVDS

Button interface is available in RS232 or USB

DisplayPort and HDMI are available upon request

NEW

Benefits

- Dynamic content within a tactile format
- Ability to combine touch surface and multiple tactile video buttons all while utilizing the same LCD/TFT panel with single video input
- Decrease in maintenance and reliability concerns compared to single screen TFT/OLED buttons

- Display graphics, text, animations, video, and even highlight error states with moving colour
- Add versatility and intrigue to games to attract attention
- Innovative use of precision image transfer fibre optics

▶ Innovation

SUZOHAPP's DPS feature Picture Key Technology at its core. This allows the dynamic picture to be elevated to the top face of your buttons. The revolutionary space-age fibre optic conduit provides the user with excellent visual clarity and enhanced interaction. Content is delivered using a single LCD, so you can reduce your development time and programming resources.

— Optic Polymer

— LCD Panel

▶ Serviceability

The DPS' modular design enhances serviceability. Individual components can be replaced, allowing for efficient repairs and reduced downtime.

▶ Fluid Ingress Protection

The robust design has been rigorously tested to prevent fluid ingress, preserving your game and maintaining uptime.

▶ Customization

Uniquely designed for a large variety of tactile and touch combinations. We will work with you to create the deck perfect for your next project.

Prefer a single bash button with a touchscreen? All tactile with no touch? **Your design possibilities are nearly limitless.**

Chrome-Luminescent Pushbuttons

Polished chrome-plated button bezel with translucent color washer molded in bezel to provide edge luminescent effect. Available in several color combinations of button & luminescent effect. Additional customization also available.

▸ Locking nut has special design to allow it to fit over "Snap-Tab" feature with microswitch installed

▸ Ease & flexibility of mounting to metal control panels using either the "Snap-Tab" or traditional locking nut

▸ Switch pre-assembled on button for reduced assembly time into control panel

▸ Subminiature microswitch provides additional clearance room under control panel

▸ Polycarbonate lens for optical clarity and durability

▸ Switch snaps on bezel of button eliminating the need to have separate lamp holder

▸ Grounded for ESD protection

Large Square   Large Rectangular   Large Round

Small Square   Small Rectangular   Small Round

STC Pushbuttons

STC Pushbuttons with Subminiature Microswitch. Available in 6 different colors: red, orange, yellow, green, blue or white.

▸ Designed to resist spills and sticking, for high reliability and long life, tested for 10 million+ cycles

▸ Standard supplied with spacer bezel for mounting on top or in the panel (low-profile)

▸ Full 0.5 mm thickness on lamp terminals holds lamp or led connectors securely

▸ For use with 5 mm wedge base lamps or leds (not included)

▸ Standard fitted with Cherry DB5 stylemicroswitch with 2.8 mm terminals or easy connection

Small Square   Medium Rectangular   Rectangular

Small Round   Elliptical   Large Square

LCD Pushbuttons

New and innovative addition to the SUZOHAPP product range. These interactive buttons give the designer additional tools for attracting new users.

▸ LCD is integrated into the button and moves with lens cap
▸ Light ring comes in a range of colors
▸ Option to customize LCD decal surround (black standard)
▸ 24 frames per second animation
▸ Full color 128 x 128 pixels
▸ USB interface, controller board controls up to 16 buttons

E-PRL
Electronic Re-Programmable Lock

Innovative, patented lock using electronics to raise the level of security from mechanical technology. E-PRL is a locking system composed of universal locks with stainless-steel housing and self-powered key sets. It is available in Unique-code or Multi-code versions, and includes remote access control management with dedicated GSN-KEY software. No wiring is required for installation and operation.

Features

- Use of steel in all mechanical parts (AISI 316) to stop forced entry and limit wear
- Resistant to water and dust for outdoor applications, IP65 sealing
- No reference on lock for burglary – listing key pair difficult to use in burglary attempts
- Upgrade to E-PRL without modifying existing mechanicals – lengths and diameters of realization stators compatible with existing mechanical version
- No addition or change to wiring on machines with mechanical locks as power is internal to the key
- Modern ergonomic key for comfortable use – dimensions reduced to bare minimum with a harmonic shape

- High quality Japanese key electronic components
- Inviolable AES 128-bit custom communication system
- Over 10 billion possible key codes due to the electronic system
- Uniqueness of a single key – each key has its own "DNA" derived from on-board electronic data
- Uses a small, easily changeable, long-life Duracell 2430 battery
- Lock stores up to 4,000 accesses between downloads
- High storage capacity of History Key enables storing multiple access locks with a single instrument. The History Key allows downloading and storing up to 32,000 accesses managed through dedicated software

Bluetooth Connectivity
Fully control your locks from any remote location, even from a smartphonr or a tablet

NEW

Innovation
It is equipped with self-powered advanced electronic technology. No additional wiring is required

Backward compatibility
The fixing hole, the length and the rotation of the lock make it compatible with the most popular machines on the market

Access control
It identifies each user, checks the permissions and records each operation. The event log can be downloaded using a special key

Security
High mechanical strenght, stainless steel housing and electronics with more than 10 billion combinations available, pratically endless!

Xlocks & STC Locks

Security Camlocks Key Alike

- 10 pin operation
- Die cast housing with chrome finish
- Camlocks available in 3 lengths: 16 mm (5/8"), 22.3 mm (7/8") and 28.6 mm (1-1/8")
- Large key provides good grip during operation
- Key made of nickel silver material for trouble-free performance
- Standard supplied with 32 mm cam with dual hole so the lock can be mounted in any position

Security Switchlocks

- 10 pin operation
- Die cast housing with chrome finish
- Length 36.4 mm (1-7/16")
- Large key provides good grip during operation
- Key made of nickel silver material for trouble-free performance
- Switchlocks have 6.3 x 0.8 mm terminals fitted for easy connection
- Switchlocks are available with or without automatic key return

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.

- 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

Speakers and Amplifiers

A wide range of speakers and amplifiers with terminals perfect for use anywhere a small footprint speaker is needed. Available in various sizes and voltages.

AudioPRO Full range speaker
50 x 90 mm 8 Ohm 2W

AudioPRO Oval speaker
41 x 71 mm 4 Ohm 2W

AudioPRO Oval Speaker
50.3 x 90.3 mm 8 Ohm 4W

AudioPRO 3.3" Full range speaker
8 Ohm 10W

AudioPRO 2" Full range speaker
8 Ohm 5W

Power Supplies & Line Filters
200W, 400W and 500W

High reliability power supplies with high efficiency and low working temperature. Available in different compact size and characterised by light weight.

80-0506-00

80-0002-10R

80-0566-00

LED Light Strips

Controller & wireless remote sold separately

▶ Easily installs in or around your machines tention and increase earnings
▶ Very thin continuous length flexible LED light strips
▶ 5m rolls can be separated every 3 LEDs and reconnected again
▶ Super bright high-quality SMD LEDs per reel with 120° wide angle illumination
▶ 3M adhesive tape on back for easy installation
▶ Operates on +12vDC

▶ LEDs controlled by controller and wireless remote (sold separately)
▶ Each controller can run 65.62 feet (20 meters) of LED strips
▶ Long life: 50,000 hours
▶ Less power consumption than traditional lights
▶ No RF interference
▶ Sold in reels of 5m
▶ +12VDC; 20W

Lamps

Light PRO LED Tubes

Proximity / Motion Sensor

✔ Detects changes in position within a zone up to 5 meters
✔ Easy to use – sensor simply changes its output from 0 to 1
✔ SUZOHAPP part number 2051400000184A

Technical Specifications

Detection distance	5m
Field of view	22°x38°
Detection zone	24 beams
Detection condition	The temperature difference between the target and the surroundings must be higher than 4°C
	Movement speed: Digital output 0.8 to 1.2m/s Analog output 0.5 to 1.5m/s
	Target concept: Human body with an approx. size of 700x250mm
	Target moving direction: Crossing the detection beam

NEW

Door Switches
Single and Double Pole

▸ Choice of push and push-pull interlock switches
▸ Snap-in panel mounting
▸ Long-life coil spring, snap-action mechanism
▸ Temperature rating -40º to +85º
▸ Flammability rating UL94V-0
▸ Various approvals available
▸ Detailed datasheets available

Cooling Fans

DC Cooling Fans

▸ Compact cooling fans
▸ Wire connection
▸ 12 or 24 Vdc
▸ Speed up to 5800 RPM

AC Cooling Fans

▸ Protects electronics from overheating
▸ Easy mounting with 4 bolts
▸ Terminal or wire connector
▸ Speed up to 3000 RPM

Finger Guards for Cooling Fans

▸ Protects electronics from over heating
▸ Easy mounting with 4 bolts

Counters

SEC Starpoint Electronic Counter

Enhanced security is a major feature of the SEC, an unique fingerprint code allows the machine to detect any meter changes and to prevent operation if the meter is not present. By utilizing the latest electronic technology, the SEC avoids the reliability problems and service call-outs which can be experienced with mechanical counting devices.

▸ Replaces up to 31 mechanical meters with individual counters stored in EEPROM
▸ 7-digit LCD for displaying contents of counters
▸ Text messages and counter selection controlled by host machine

▸ Clocks serial interface designed to work on existing meter ports
▸ Improved security through:
  - Secure software protocol
  - Tamperproof counters with unique fingerprint code

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Notes

Notes

≡ SUZOHAPP

Touchmonitors and
Secondary Displays

Pushbuttons and
Digital Panel Systems

Locks

Power
Supplies

Cooling
Fans

Open loop
Cashless Systems

Bill Validators
and Recyclers

Closed loop
Cashless Systems

Coin Validators
and Recyclers

Doors
Switches

TICKETS

Touchmonitors and
Secondary Displays

Pushbuttons

Barcode
Scanners

Printers

Speakers
and Amplifiers

Locks

Power Supplies

Coin Validators
and Recyclers

Cashless
Systems

Bill Validators
and Recyclers

Hoppers

Doors
Switches

Cooling
Fans