

# BPS<sup>®</sup> 200

Desktop Banknote Processing System



Giesecke & Devrient  
Creating Confidence.

# Cutting costs with the BPS 200



## Currency processing costs money

Increasing pressure on costs in all areas of cash handling means that new solutions are needed.

As global market leader in the field of currency processing, Giesecke & Devrient (G&D) is setting new standards with its BPS 200 system.

Customers include central and commercial banks, cash-in-transit companies, casinos and other establishments that routinely handle large amounts of currency.

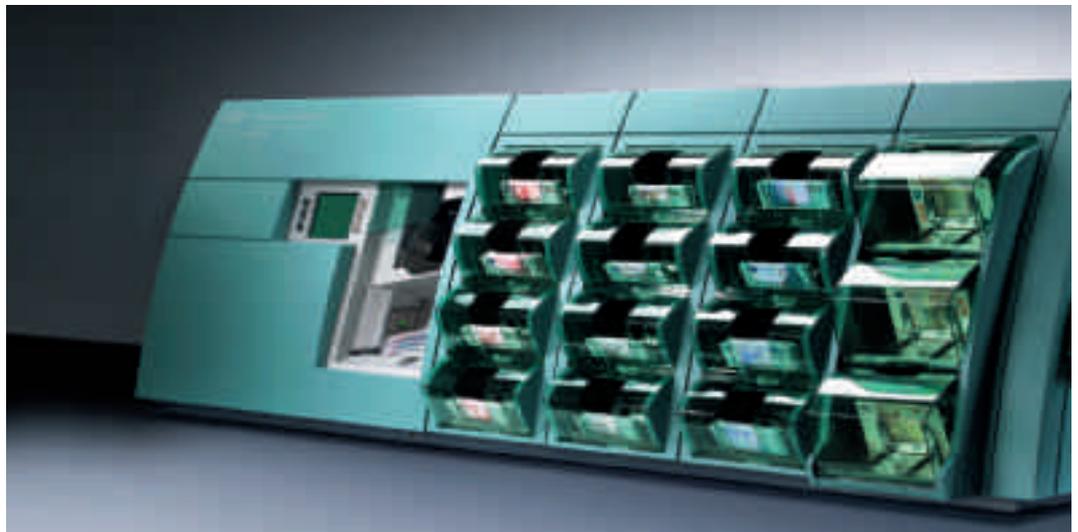
The BPS 200 provides a wide range of opportunities for optimizing processes, cutting costs and raising productivity in currency processing.

In a single pass, banknotes are counted, authenticated and sorted by:

- Denomination / issue
- Orientation
- Fitness

The BPS 200 improves processing efficiency, providing you with a competitive edge.

High quality, reliable, accurate processing, ease of use, as well as an optimum ergonomic design, are decisive benefits characterizing the BPS 200.



# The modular system concept

## Delivery modules

The BPS 200 is expandable – from four to sixteen sorting stackers.

Two types of delivery modules are available:

- The standard delivery module has four stackers with a capacity for 100 banknotes each
- The large delivery module has three stackers with a capacity for 500 banknotes each

The loose banknotes can be transferred easily and quickly from the large delivery module to ATM cassettes. The large delivery module can also be used to optimize the handling process.

## Singler

- Continuous loading of banknotes allows for uninterrupted operation of the system
- No adjustment for different banknote sizes is necessary
- An air-supported singler can be implemented for problem-free handling of poor quality banknotes

## Operation modes

A variety of operation modes can be selected for the efficient processing of small, medium or large deposits:

- Deposit or input package processing handling with direct entry of reject data
- Fast deposit processing
- Header card operation\*

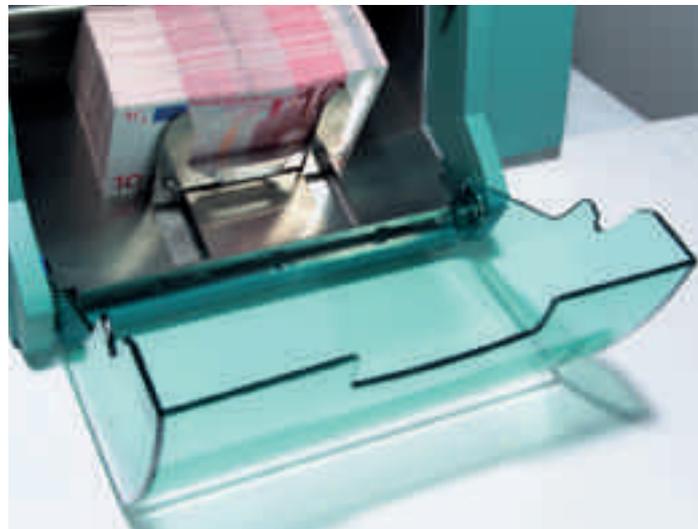


## Ergonomic environment, simple operation

The compact arrangement of the singler and reject and sorting stackers provides for easy, fatigue-free operation – even in a configuration with the maximum number of sixteen stackers.

## Cash management system

The BPS 200 can easily interface with cash management systems, such as G&D's Compass<sup>CM</sup> or Compass-Entrée<sup>CM</sup>.



\* The header card technology used in this product is licensed from Currency Systems International, Inc. of Irving, Texas, on the basis of U.S. Patent No. 5,917,930 and additional patents in other countries.



# Custom-tailored solutions



The modular design of the BPS 200 offers an optimum solution for every application.

### High-grade fitness sorting

Where high-grade fitness sorting of single-denomination deposits with uniform orientation is required, typically by central and commercial banks, a BPS 204 is the optimum solution.

- Reliable denomination and authenticity detection
- High-grade fitness detection
- Four stackers for fitness sorting



### Fast denomination and orientation sorting

Many commercial banks require fast denomination and orientation sorting. A BPS 208 is the solution here.

### Sorting for ATMs and counter money

The BPS 211 is well suited for this requirement.

In addition to eight sorting stackers delivering output packages of 100 banknotes, this model also has three large stackers for up to 500 banknotes each. The large stackers are the ideal solution for ATM loading.

### Flexibility: the key to the future

The BPS 200 can easily be adapted to meet new requirements. A capability that is just as important as high accuracy and reliability.

With the aid of a user-friendly tool, new processing modes can be configured quickly and easily to accommodate changing handling needs.

The tool is used to define:

- Sorting criteria (e.g. denomination, orientation, fitness)
- Stacker assignment (e.g. the number and positions of stackers for each denomination and orientation)
- Stacker content (number of banknotes)
- Accounting mode

# Fast and efficient accounting



## Casino Tickets

Casinos are increasingly changing over to cashless gaming, issuing tickets to their customers. The information each ticket contains is managed centrally and assigned a unique ID number in the form of a barcode. The BPS 200 reads this barcode and processes the ticket as part of the deposit. The tickets are then placed in a specially configured stacker. Banknotes and tickets can be processed simultaneously in a single pass. When processing is complete, the ticket ID number is transferred to the central computer along with

the deposit data (e.g. number and denomination of banknotes).

## BPS 200 in the cash center

Fast, efficient accounting and sorting of small to very small deposits is a challenge for every cash center.

The optimum solution: a BPS 215 or BPS 216 in combination with cash management software (e.g. CompassEntrée<sup>SM</sup>).

## The BPS 200 system offers:

- Fast deposit accounting due to the use of header cards
- Reliable denomination and authenticity detection
- High-grade fitness detection
- An adequate number of stackers for denomination, orientation and fitness sorting
- As an option, large stackers to sort banknotes for ATMs

Single pass sorting and the use of header cards permit extremely fast, cost-effective processing of small deposits.



# High-tech sensors at the heart of the system

Full-face scanning of both sides of every banknote provides for outstanding authenticity and fitness detection as well as highly accurate counting and sorting.

## Authenticity detection

- Thickness, multiple items
- UV-dull paper
- Infrared properties
- Hard and soft-coded magnetic elements in the print
- Magnetic properties of the security thread
- Electrical conductivity of the security thread
- Fluorescence
- Phosphorescence
- G&D high-level security features

## Denomination and orientation detection

- Printed image / issue
- Size

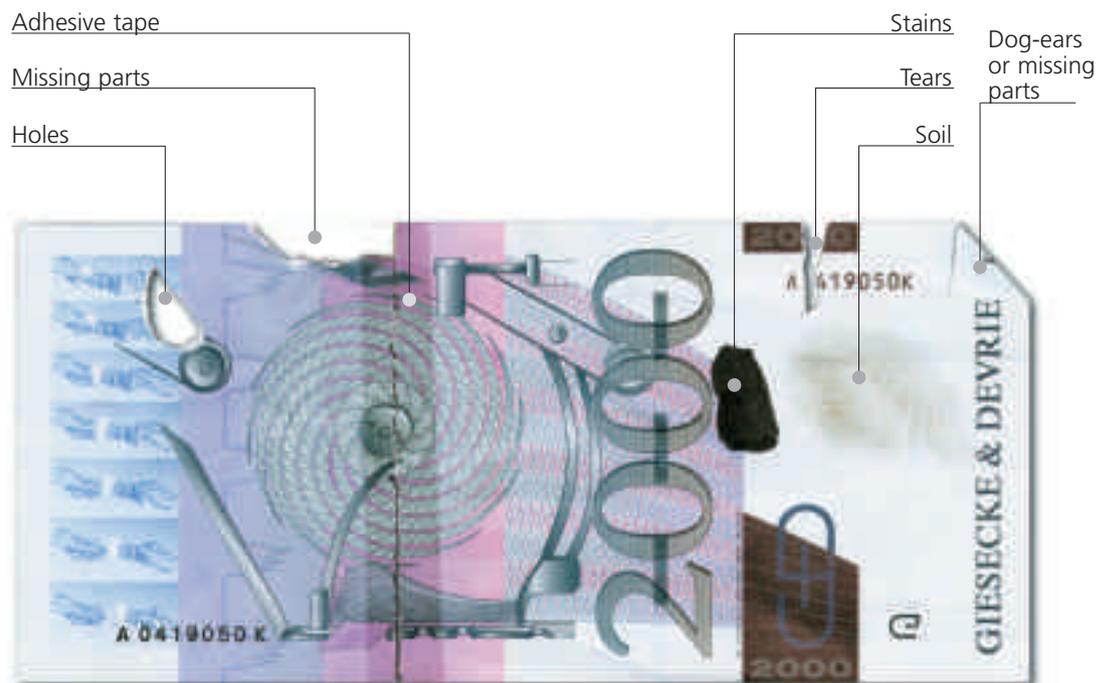
## Fitness evaluation

- Mechanical properties (e.g. limpness, dog-ears, tears, missing parts, holes, adhesive tape)
- Soil and stains detected by a special sensor
- Categories: ATM, fit, unfit
- Sorting parameters can be configured by the operator

The BPS 200 sensor unit can be adapted easily and quickly to accommodate new currencies and denominations.

Handling of a range of different currencies is possible.

Additional sensor functions can be integrated upon request.





# The benefits at a glance

- Excellent cost-benefit ratio due to a custom-tailored system
- Fast, economical handling of small to very small deposits through the use of a barcode reader or header cards
- High throughput and low processing costs: only one pass for various sorting operations (up to sixteen sorting stackers); only one operator needed
- Short processing cycles
- Maximum accuracy and industry leading standard in counting as well as denomination, fitness and authenticity detection due to a full scan of both sides of the banknotes. A key element for the recirculation of banknotes
- Saves time and money by enabling quick, accurate accounting and preventing errors
- Efficient handling of poor quality banknotes with use of an optional air-supported singler
- Excellent accessibility in the event of a jam
- Fatigue-free working, either seated or standing, because of compact, ergonomic design; simple user interface provides for fast, error-free operation
- Easy access to information on the processing status, either through reports or through interface with cash management system or host computer
- Low installation cost due to small spatial requirements and one-phase power supply; no air-conditioning needed
- Low maintenance requirements, low follow-up and servicing costs
- Future-proof investment: fast adaptation of the machine to new sorting requirements with use of the configuration tool; problem-free accommodation of new issues, denominations and currencies
- Long service life and high availability, even under demanding operating conditions
- Short return on investment period
- General cost reductions based on faster handling with the introduction of the new system
- Enhanced competitiveness due to reduction of processing times and costs





## Technical Data

### System configurations

BPS 204–BPS 216

### Dimensions

- Length: 1,260–2,115 mm
- Width: 515 mm
- Height: 610 mm; with basis module flap open approx. 1,200 mm

### Weight

100 kg–190 kg

### BN formats accepted

- Width: 60–90 mm
- Length: 100–180 mm

### Processing speed

Singling rate: up to 12 BN/s

### Transport speed

Max. 2.8 m/s

### Theoretical throughput

Up to 40,000 BN/h

### System design

- Table-top device
- One operator
- Seated or standing operation

### BN feeding

- Capacity of up to 800 loose BN;
- Independent of BN format
- Continuous feeding possible during singling

### BN delivery

- Up to 16 stackers
- Common amounts such as 100 or 500 BN
- Any amount between 1 and 500 BN can be defined
- Reject compartment capacity: up to 200 BN
- Separate fail-safe compartment for simple jam recovery with correct accounting

### Reject processing

- Online through direct entry of data into the system
- Offline through separate data input to PC or a cash center management system such as Compass<sup>CM®</sup>

### System availability

Typically > 95% (depending on maintenance condition)

### Power supply

- 230 V 50 / 60 Hz
- 120 V 50 / 60 Hz

### Power consumption

0.5–1 kVA

### Pneumatic module

Power consumption: 240 VA

### Ambient requirements

- Ambient temperature: 15–35 °C
- Relative humidity: 30–80%, non-condensing

### Noise emission

67–75 dB (A)  
according to DIN EN ISO 11204

### Footprint

Approx. 0.65–1.1 m<sup>2</sup>

### Data interfaces

- LAN / WAN (TCP / IP)
- Interface to cash management systems and vault management systems, host computer
- Interface to RS 232 journal printer
- Remote diagnostics
- Network connection

### Certifications

- GS mark for tested safety
- CE seal of approval
- CCC certified
- GHOST certified

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