

NotaPack® 10

Fully automatic banknote packaging



Giesecke & Devrient
Creating Confidence.

Essential for efficient banknote processing

The NotaPack 10 is a sophisticated system which has been specially developed for banknote packaging. This makes the packaging unit the ideal add-on solution for the BPS® M5, BPS® M7, and BPS® X9 processing systems and their predecessors. The NotaPack 10 packages up to ten bundles per minute and meets requirements for cost-efficient packaging in cash centers and banknote printing plants.

The bundles produced by the BPS are further processed by the NotaPack 10 in a fully automatic and tamperproof way. Due to its excellent reliability, the system guarantees optimum productivity and offers comprehensive security during the banknote packaging process.

Sealing the bundles in transparent shrink-wrap provides a number of advantages: It prevents bundles from being opened unnoticed and protects banknotes against external conditions. During this process, the shrink-wrap is applied tightly around the banknote bundle. The compact form considerably simplifies handling in downstream steps.

Great advantages – small footprint

The NotaPack 10 has a many useful properties which have a positive effect on productivity, process reliability, and availability.

Productive and user-friendly

The proven L-sealing principle ensures absolute reliability, and at the same time supports format-independent banknote packaging, e.g. in multiple denominations. The NotaPack family's proven touchscreen operation has been upgraded with a completely revised, intuitive user interface. The graphical system overview and the helpful instructions for error resolution additionally increase system availability.

To guarantee maximum availability, the NotaPack 10 can also be supported via remote service. This way, malfunctions can be identified quickly and dealt with efficiently. Thanks to fully automatic control, during normal operation, the NotaPack 10 does not require an additional operator.





Secure and ingenious

The sophisticated security concept ensures complete user identification, secure access control, and transparency by recording all system events.

Besides connection to a BPS, manual feeding of banknote bundles is also possible, e.g. for special operations or reprocessing.

An optional printer module on the conveyor belt can apply a label with a unique bundle ID and specific production data. This makes it possible to track every single bundle. This additional plus for security and cost-efficiency considerably reduces expenses for security personnel and surveillance equipment. The number of packages contained in each bundle can be

checked automatically upon request. This guarantees that only bundles with the correct content are packaged.



Compact and flexible

The packaging system has been specially developed as an industry solution to meet banknote processing requirements: The interfaces for the material and data flows are fully connected to the BPS. The modular design of the NotaPack 10 and the compact

module dimensions also ensure that it can be used where space is very limited. Upon request, an automatic output module raises the packaged bundles to working height and thus enables ergonomic further processing. In addition, the NotaPack 10 can be connected to downstream automation systems:

For example, the NotaPack F can package bundles into larger shrink-wrapped packages of up to 10,000 banknotes.



Economical and environmentally-friendly

Power consumption and heat emissions are 50% lower than with standard systems. This is achieved thanks to the small dimensions of the shrink-wrap tunnel and efficient insulation. As a result, special adaptation of the air-conditioning system is not required. To save costs,

the NotaPack 10 can be connected directly to the compressed air supply of the BPS system (pneumatic module). The shrink-wrap is made of pure polyethylene (PE). Consequently, only water, carbon dioxide, and heat are produced during thermal recycling. In addition, we also offer shrink-wrap that comprises approx. 50% renewable raw materials.

This allows you to make a further contribution to saving finite resources and reducing your climate footprint.

The NotaPack 10 in cash centers

The NotaPack 10 has a modular design which provides a wide range of options for the configuration and installation of the system. Due to its notably high throughput, up to five BPS systems can be connected at the same time. The interfaces to the BPS M5 and BPS M7 are well aligned to ensure trouble-free interaction.

Feeding of banknote bundles

The system packages up to ten bundles of 1,000 banknotes per minute. These bundles are unloaded from the BPS to a feeding module which is adapted to the customer's specific circumstances. This process takes into account both the length of the BPS and the height of the banknote output, which can vary according to sitting or standing operation. If necessary, the feeding module can be moved off to the side of the BPS if the pre-bundler film needs to

be changed there. Thanks to servo assistance, no physical effort is required on the part of the operator.

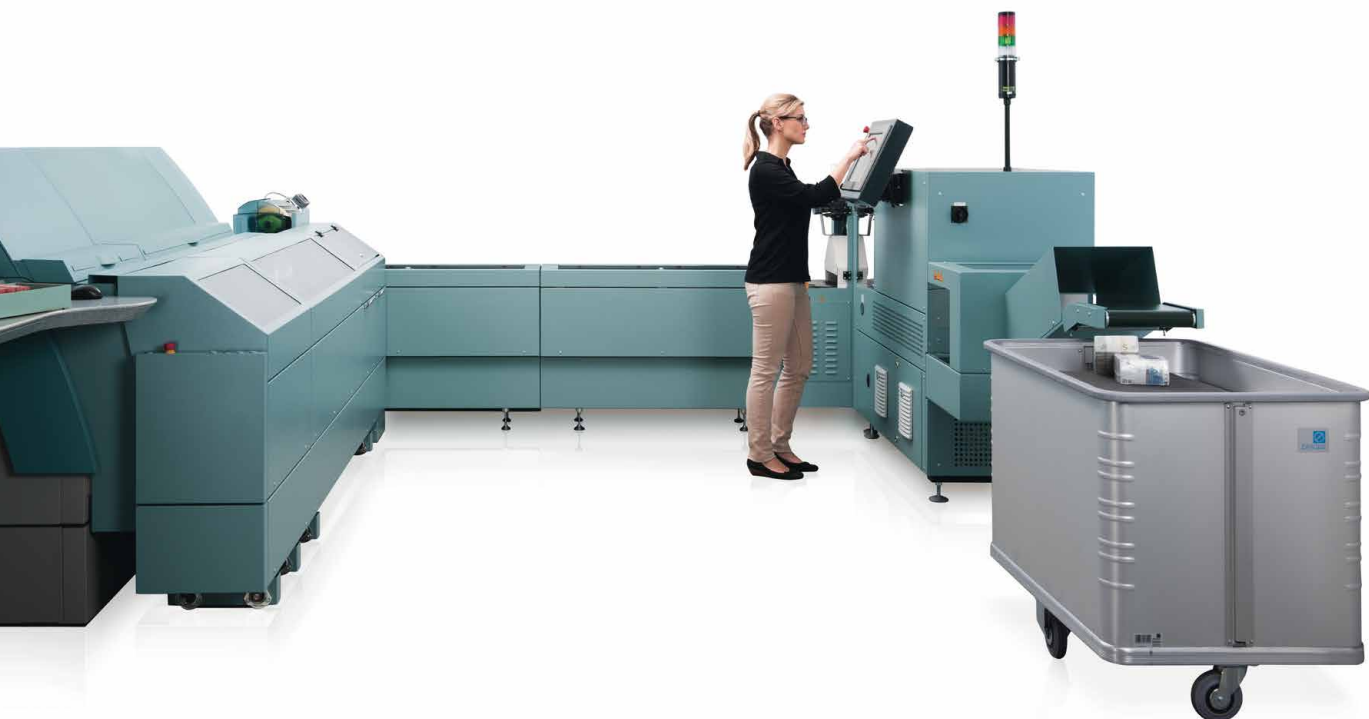
The absence of lower bundler flaps in the BPS enables direct access and saves time.

Packaging of banknote bundles

The bundles of 1,000 banknotes are packed in transparent shrink-wrap in a tamper-proof fashion. A particular advantage of the NotaPack 10 is the option to process any number of denominations in parallel, without special format settings.

Labeling of banknote bundles

The optional label module can be used to print static data such as the bank name with logo and the bundle ID as well as the date and time on the bundles. Upon request, dynamic production data can also be applied such as a bundle-specific banknote denomination and the BPS name.



The NotaPack 10 in banknote printing plants

Each BPS is connected to one packaging system to ensure a clear material flow and unobstructed access to the BPS. The NotaPack 10 is designed for compactness and requires little space. Optimally aligned interfaces with the BPS X9 or BPS 2000 OBIS ensure trouble-free interaction.

Feeding of banknote bundles

The pre-bundles of 500 banknotes from the BPS are bundled together in pairs in the NotaPack 10 to form a 1,000 unit output bundle (OPBP, output bundle pair). To achieve a uniform shape for the output bundle, every first or second pre-bundle can be turned using an optional turning station.

Packaging of banknote bundles

The banknote bundles are packed in transparent shrink-wrap in a tamperproof fashion. A format change can be carried out without changing the shrink-wrap or settings.

Labeling of banknote bundles

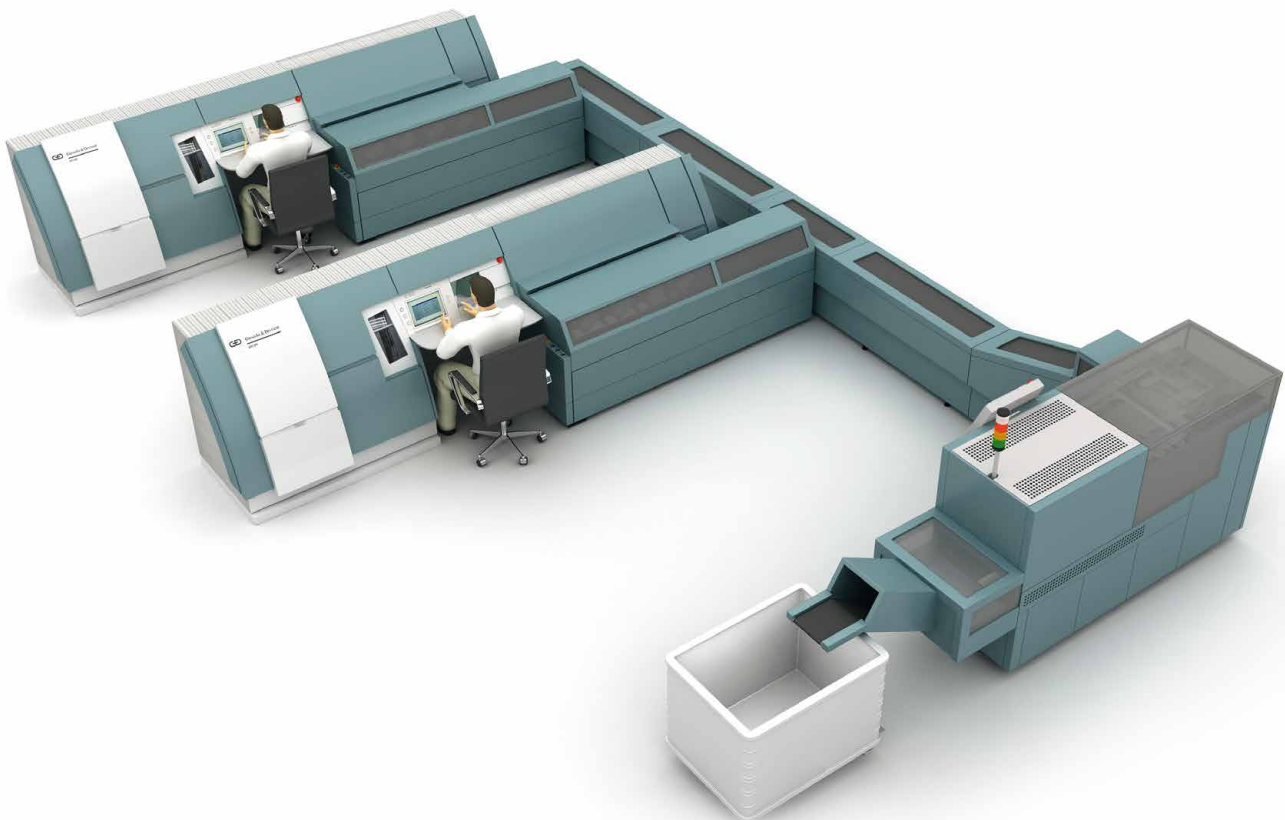
The NotaPack 10 and the BPS form an integrated system. The BPS assigns consecutive OPBP numbers for the 1,000-unit output bundles and output parcel (OPP) numbers for the subsequent packaging unit, e.g. a cardboard box. Beside those identification numbers, the first and last serial numbers of an output bundle and additional online production data can be printed on a bundle label. This eliminates the need for manual labeling effort and further checks against printed OPP reports.



The NotaPack 10: A complete solution with professional service

The constant availability of banknote processing equipment is crucial: Our wide range of services ensures that your equipment functions perfectly.

- Reliable consulting provided by experienced G&D specialists
- Professional training provided by G&D service technicians
- Service contracts which ensure that the system is kept up and running and which can also be integrated into existing service agreements
- Provision of remote services for maintenance and troubleshooting



Best **packaging**
for your money.



Technical data

Performance data

- Throughput:
Min. 10 BN bundles/min
- Availability: > 98%

Feeding module for BPS 1000/M systems (4 stackers)

- Dimensions (L/W/H) in mm:
2,357 × 450 × 780
- Weight: 220 kg

Feeding module for BPS 2000/X systems

- Dimensions (L/W/H) in mm:
2,843 × 380 × 1,137
- Weight: 280 kg

Shrink-wrapping and sealing module

- Dimensions (L/W/H) in mm:
2,400 × 1,028 × 1,634
- Space requirements: 0,75 m²
- Weight: 770 kg

Optional modules

For multiple installations, further components such as transfer modules and buffering modules are available.

Able to process bundle formats of 500 or 1,000 BN

- Length: 115–185 mm
- Width: 60–90 mm
- Height: 45–185 mm

Shrink-wrap

- Polyethylene (PE) center-folded shrink-wrap
- 19–25 µm standard shrink-wrap
- Shrink-wrap partly made from renewable raw materials can be used

User interface

- Operator guidance and error diagnosis via color touchscreen
- Messages in customer-specific language

Interfaces

- USB
- Ethernet

Stored operating data

- Machine and error messages
- Number of BN bundles

Power supply

- Three-phase current:
3 AC 400 V N +/-10%
50 Hz +/-5%
- Three-phase current:
3 AC 208 V N +/-10%
60 Hz +/-5%

Power consumption (BPS single configuration)

Average consumption: Approx. 2.0 kW

Air supply (BPS single configuration)

- Air pressure: 6–7 bar
- Air consumption: 18 l/min (normal rated flow)

Ambient conditions

- Temperature: 15–30°C
- Relative humidity: 30–80%
- Noise emission: < 70 dB (A)

Approvals

- The product complies with EU directive specifications
- GS mark for tested safety
- EuroTest® (ET)

Options

- Static printing
- Dynamic printing
- Labelling: on the top or on the side of the bundle
- Optical label inspection
- Optical bundle inspection
- Servo-assisted movement of feeding module

- Driven output conveyor for bundle delivery at working height
- Spring-loaded trolley
- Conveyor belt sockets for the BPS M standing option
- Buffering modules for temporary storage of bundles

- Transfer modules for bridging of longer distances
- Bundle turning station
- Integrated sprocket drum
- Perforation for easy opening
- BPS Eco-Protect for secure network communication
- BPS Eco-Remote for secure remote service capability

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