

NotaPack® 20

Fully automatic banknote packaging



Giesecke & Devrient
Creating Confidence.

The new standard in fully automatic banknote packaging

Giesecke & Devrient (G&D) is the world's leading provider of premium product and system solutions for banknote processing. From end-to-end cash centers to perfectly matched standalone solutions, G&D ensures top quality throughout the cash cycle at all times.

NotaPack 20 – end-to-end automation

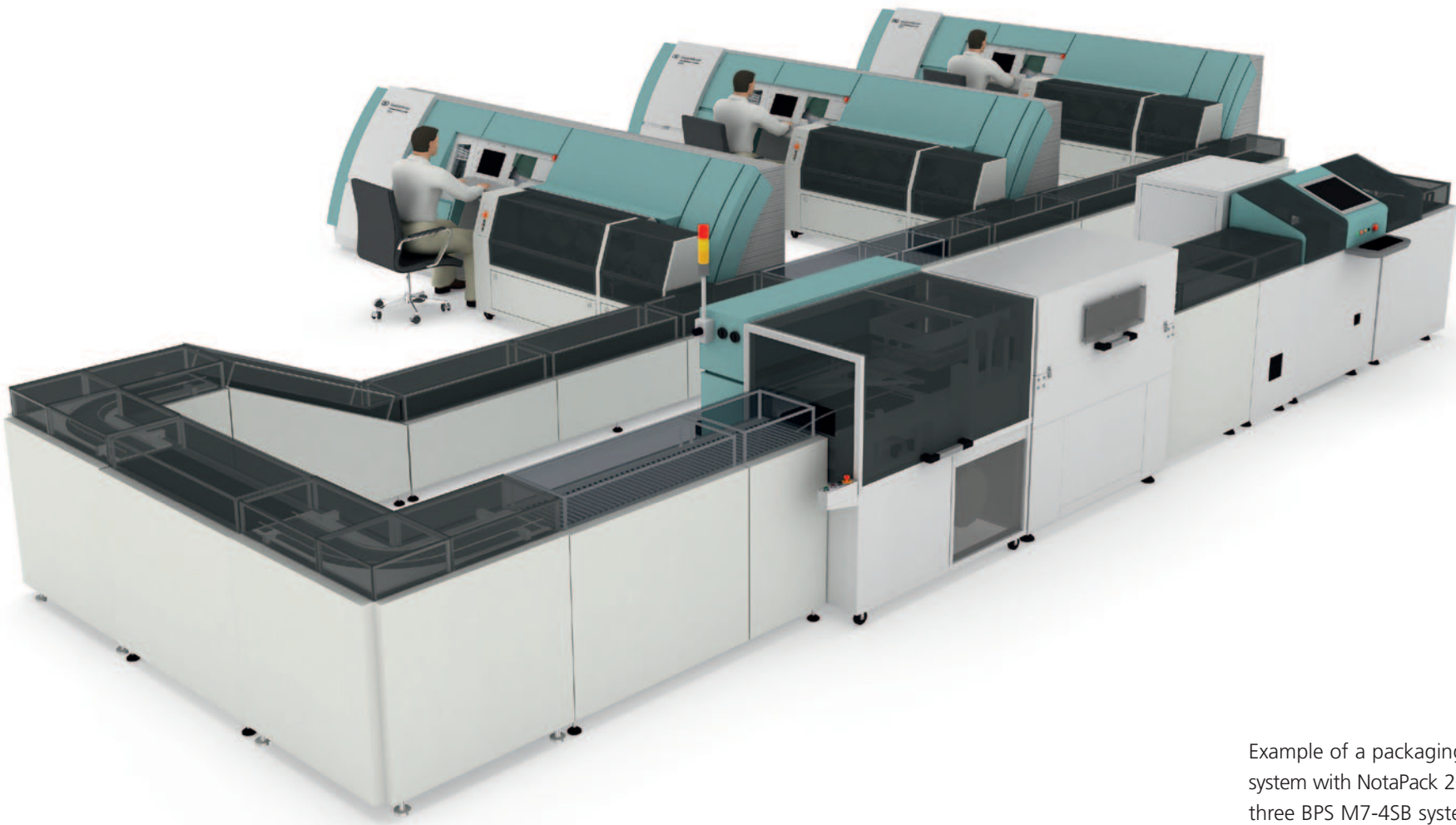
The NotaPack 20 modular packaging system was developed specifically to integrate with the BPS M7, BPS M5, and BPS 1000 systems and meet the high performance and system requirements of automation installations in medium to large cash centers. It can be connected to up to 12 BPS systems (any combination of BPS M7, BPS M5, or BPS 1000 machines), depending on the output volume. As a central packaging system, the NotaPack 20 can package up to 1.2 million banknotes per hour.

Fast, reliable banknote packaging

Once banknote bundles have been processed and automatically output by the BPS systems, the NotaPack 20 individually shrink-wraps them and applies a label containing information such as the value, operator's name, machine number, date of processing, and weight – in plain text and, if desired, as a barcode. The bundles can optionally go on to a NotaPack F, which will wrap them into bricks of 5 or 10 bundles each. All these steps are fully automated to provide significant cost savings.

Monitoring and reporting for maximum security

The entire packaging process is highly secure and tamper-proof. A special monitoring system tracks and documents every step: from receiving the bundle from the banknote processing system to finally packaging each unit. All conveyor belts are protected by monitoring switches – if the housing is opened without authorization, the alarm immediately goes off, the conveyor belt stops, and the incident is logged.



Example of a packaging system with NotaPack 20 and three BPS M7-4SB systems

Benefits of the NotaPack 20

- High throughput rates of up to 20 bundles per minute for unrivaled efficiency
- Weighing unit for verifying bundle integrity and rejecting defective bundles
- Central labeling after the packaging process is complete
- Fully modular feed paths adapt easily to room dimensions and have sufficient accumulation capacity to ensure continuous operation, even when replenishing film
- Intuitive graphical user interface with status information on the overall system and the attached BPS systems
- Reporting system for tracking received bundles and listing finished packaging units

Versatile, high-quality modular solution

Each NotaPack 20 system solution is tailored to the customer’s needs and can contain the following modules:



Feeding module

The feeding module receives the pre-bundled banknotes from the BPS system bundlers and transports them to the next module on a conveyor belt. Each banknote bundle is given a barcode label with an identification number (BIN). This number is stored in a database along with information such as denomination, fitness class, and other system-specific data. If the operator needs to access a BPS system (e.g. to replenish bundler film), the conveyor belt can be effortlessly retracted to the side.



Connection module

This conveyor belt comes in various lengths and bridges the distance between individual nodes.



Lifting module

The infinitely adjustable lifting module compensates for height differences between the infeed line and the sealing module.



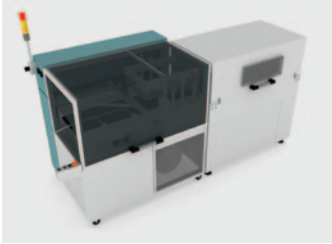
Collection module

A collection module smoothly merges bundles from the various feeding modules and upstream conveyor belts.



Turning module

Turning modules gently rotate bundles 90 or 180 degrees. This feature allows you to interconnect large systems with multiple nodes and changes of direction and fit them into any room.



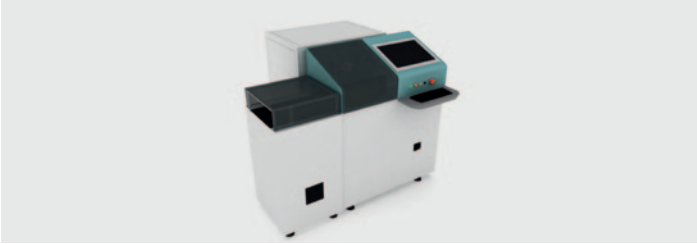
Sealing module

The sealing module packages banknotes of various sizes without requiring changes to its settings. The sealing module seals the banknote bundles in tamper-proof PO film that provides reliable protection against dirt and humidity. Heating the film in a shrink-wrap tunnel produces compact, tamper-proof bundles.



Slip storage module

The slip storage module is located upstream from the sealing module. If the sealing module is stopped to replenish bundler film, each slip storage module can, depending on its length, hold up to 10 bundles so the upstream BPS systems can keep running.



Weighing unit, printing unit, and central control unit

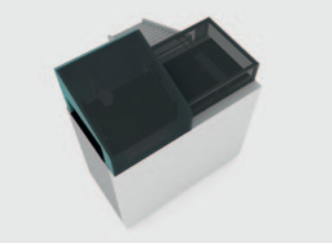
Weighing unit

The weighing unit determines and documents the exact weight of the final sealed bundles. Bundles that fall outside of denomination-specific tolerances are automatically rejected.

Printing unit

The printing unit prints and applies labels with specific data onto the sealed bundles. The information on the label can vary widely and be tailored to each customer:

- Customer's name and/or logo
- Bundle denomination and total value
- Banknote quality (e.g. fit or ATM fit)
- Date and time of packaging
- Bundle weight
- Identification of producing BPS system and operator's name
- Name of logged-in NotaPack 20 operator



Check-out module

The check-out module separates acceptable bundles from defective ones and sorts them into the correct delivery compartments.

- Unique bundle identification number
- 1D or 2D barcode with bundle-specific data
- Special marking for defective bundles

All the information printed on the label is also stored in the NotaPack 20 database.

Central control unit

The central control unit handles process monitoring, data storage, and reporting. System information and operator messages are presented clearly and concisely on a 15" touchscreen. Electronic reports can optionally be sent to a vault management system or data warehouse system such as Compass VMS®.

A secure future for modular banknote packaging

Since the NotaPack 20 is fully modular, it integrates easily into practically any cash center situation and scales flexibly as your requirements grow. G&D's seasoned specialists can help you with whatever you need – from in-depth initial consultations to fast, reliable installation and professional upgrade support.

Optional services

- Professional operator training provided by G&D service technicians
- Service contract keeps the system up and running – can be incorporated into existing service maintenance contracts for equipment such as processing machines
- Remote service access for remote maintenance and troubleshooting – complete reliability and prevention

Technical Data		
Dimensions (W/D/H) and weight		
- Feeding module (4 stackers):	143 kg	
1,955 x 440 x 890 mm		
- Collection module:	97–190 kg	
1,500–3,000 x 415 x 600 mm		
- Connection module:	64–190 kg	
1,000–3,000 x 415 x 600 mm		
- Lifting module:	75 kg	
1,000 x 415 x 1,050 mm		
- Turning module:	101–195 kg	
930–1,825 x 930–1,460 x 1,050 mm		
- Slip storage module:	125–350 kg	
1,000–3,000 x 1,050 x 460 mm		
- Sealing module:	890 kg	
2,520 x 1,200 x 1,250 mm		
- Central control unit:	200 kg	
1,500 x 1,100 x 1,250 mm		
- Printing unit:	150 kg	
850 x 610 x 1250 mm		
- Check-out module, 2 or 3 delivery compartments:	82–200 kg	
1,000–1,500 x 465 x 1,250 mm		
Bundle formats accepted (500 or 1,000 BN)		
- Length:	100–200 mm	
- Width:	60–120 mm	
- Height:	45–140 mm	
Performance data		
- Conveyor belt speed: 0.32 m/s		
- Throughput: up to 20 BN bundles/min		
Types of film used		
Polyolefin films (POF) with standard thicknesses of 19–25 µm		
User interface/operation modes		
- Touchscreen interface with messages in the local language		
- Operation log		
- Bundle tracking		
- Reporting on all processed bundles		
Power supply		
Three-phase current		
3 AC 400 V N +/-10%		
50 Hz +/-5%		
Power consumption		
Average consumption: approx. 7.5 kW (packaging system for 2 BPS M7-4SBs)		
Air supply		
- Air pressure: 6–7 bar		
- Air consumption: 20 l/min. (normal rated flow)		
- Air quality: dry and oil-free		
Ambient requirements		
- Temperature: 10–40°C		
- Relative humidity: 30–80%		
- Noise emission: < 70 dB(A)		
Approvals		
- This product complies with EU directive specifications		
- GS mark		





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