

# CASE STORY

Banco de la República, Bogotá (Colombia)

## Compact and customised banknote destruction

The Hunkeler Compact Buffer HCB 600 was a decisive argument for the Banco de la República, which is why they decided for the solution of Hunkeler Systeme AG.

The Banco de la República destroys banknotes in Medellín, Cali, Barranquilla and Bucaramanga with shredding systems from Hunkeler Systeme AG. In a two-stage process with a shredder and granulator, the banknotes are shredded into very small particles according to security level P5. The system has a capacity of 250 kilograms per hour.

### The key component

At all four locations, only very limited space is available for banknote destruction. A classic system with the transport of the banknotes via an ascending conveyor belt to the shredder was not realistic.

The solution was the Hunkeler Compact Buffer HCB 600, a key component in the system. Despite the limited space available, the buffer allows the banknotes to be shredded in a closed system that is protected from unauthorised access. At one of the four locations, the bank has supplemented the shredding technology with a briquetting press.

### 600 kilogram capacity

In the Compact Buffer, the banknotes are stacked, transferred via a lift to a conveyor belt and then to the shredding system. The buffer capacity is sufficient to hold up to 600 kilograms of banknotes.



The Hunkeler Compact Buffer HCB 600 holds up to 600 kilograms of banknotes.



A fine filter guarantees the required air quality of a maximum of 0.1 milligrams residual dust content per cubic metre.

### Fine filter ensures high air quality

Hunkeler Systeme AG was faced with a challenging task not only in terms of the shredding process. The shredding of banknotes tends to generate a lot of dust. An extraction system equipped with a fine filter ensures air quality with a maximum residual dust content of 0.1 milligrams per cubic metre.

### Safety at the highest level

The comminution process is monitored by the Hunkeler Control Manager. Among other things, the software controls the temperature prevailing in the granulator. An

alarm signal with stop function indicates if the temperature exceeds a certain value. The Hunkeler Control Manager also manages all user and access rights. Authentication by means of a personal password ensures that only authorised persons have access to the system. All access data is continuously recorded and stored. The processes can be traced back at any time and the production logs can be viewed.

The Hunkeler Control Manager is a proprietary development of Hunkeler Systeme AG and is based on an open system architecture.



### HCB 600: A scalable system

The Hunkeler Compact Buffer HCB 600 works according to the paternoster principle. The banknote bundles are stacked vertically and transferred to a conveyor belt at the top, which feeds the bundles to the two-stage shredding unit (picture left). The process is completely automated, manual intervention is not required.

The Hunkeler Compact Buffer HCB 600 achieves a lot and takes up little space. Its space requirement is four times smaller than that of other systems with comparable performance. The system is scalable, with possible loading capacities ranging from 200 to 800 kilograms of material.