

Handling polymer banknotes

Reliable dust-free shred collection systems

VALUE
ADDING
TECHNOLOGY

Collecting polymer banknote shreds

An easy and clean operation

Shredded banknotes are conventionally dusty, especially with polymer. Trusted since 1911, Royal Dutch Kusters Engineering provides reliable and clean shred collection solutions.

Dust-free shred collection operation

After the polymer banknotes are shredded by a banknote destruction system (offline) or sorter (online), the shreds have to be collected.

Royal Dutch Kusters Engineering recommends collecting the polymer shreds into a collection system with an integrated anti-static and self-cleaning air filter because of the dust involved, especially with the destruction of polymer banknotes.

This filter holds the dust while a screw conveyor distributes the shreds to the connected sacks, big bags or other collection options of choice by a screw conveyor. In this way, replacing the bags is a clean operation and safe for the operating staff.

Reliable and tailored shred collection systems

The Kusters Shred Collection Unit (SCU) systems and the Kusters Online Polymer Collection Systems (OPCS) contain such filters.

When a Kusters Online Briquetting System (OBS) is already in operation, the OPCS is the most favourable option as the OBS can be sustainably rebuilt into an OPCS.

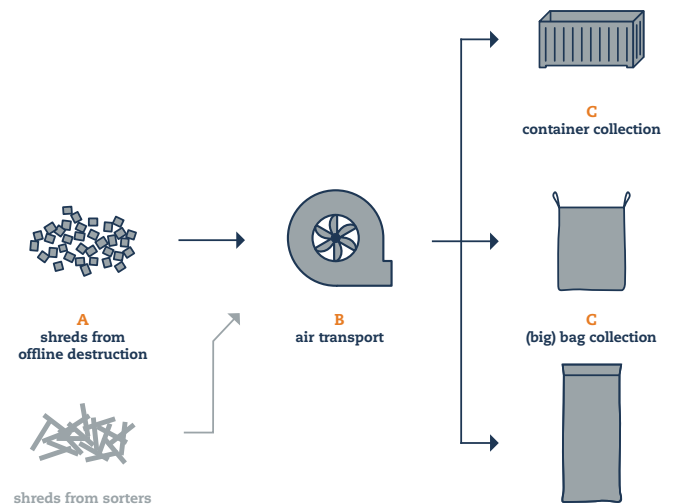
Lastly, the Double Cyclonic Separator (DCS) is used as an emergency or backup option. The shreds and dust involved are directly transported from the offline or online destruction system(s) into the bags of the connected DCS.



Collect shreds from off- and online destruction

All Royal Dutch Kusters Engineering shred collection systems can handle shreds from both offline and online banknote destruction solutions, irrespective of the brand.

Moreover, up to 20 sorters can be connected to one SCU or OPCS. Worldwide, Kusters has successfully connected hundreds of these online destruction systems to its shred handling solutions.



Handle cotton and polymer banknote shreds simultaneously

When adopting another substrate for denominations, a country will likely have various (cotton, polymer, hybrid) substrates in circulation. Either because, during the switch, the current banknotes remain legal tender or because only certain denominations will be issued on the new substrate.

An **upgrade** of the collection systems is required to handle cotton, hybrid and polymer shreds separately. The shreds need to remain separated because, otherwise, the polymer shreds could get contaminated, eliminating the possibility for high-quality recycling and thus its value.

Besides, briquetting is not possible for polymer shreds due to the tendency of the polymer to heat up and melt accordingly. Moreover, for polymer, there is only a minimal volume reduction possible anyway.