

Disposal solutions for the packaging industry



The economic efficiency of an extraction system begins with the collection of the production waste, for example with grey cardboard and flexible packaging, directly at the production site. Tailor-made system solutions for the packaging industry are an integrated component of operational logistics.

Grey cardboard

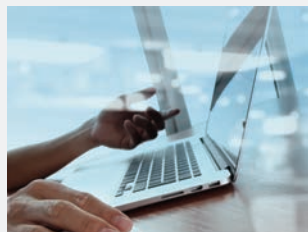
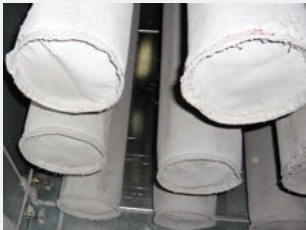
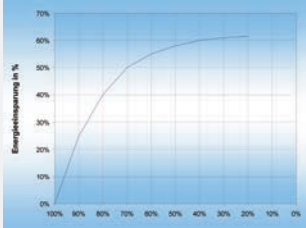
Corrugated cardboard

De-dusting

Foils

Flexible packaging

Metal and aluminium



Pneumatic conveyance in negative pressure

Increasing requirements in product quality and environmentally friendly production require efficient dust collection and extraction systems. Whenever possible, Hunkeler works with negative pressure systems, to ensure that no residual dust is left in the production system.

Energy saving systems ESS and ASA

Every company can do their bit to save energy and at the same time do a lot for their own costs. The automatic switch off and the energy saving system from Hunkeler Systeme are solutions which can reduce your operating costs by as much as 50%.

Compaction

Where large amounts of waste occur, compaction is an important part of efficient disposal logistics. Compacted, homogenous waste is regarded as quality secondary raw material, it simplifies processing and reduces warehouse and transportation costs.

Filtering

The filter cleans the dust-laden transport air, which can be returned to the production room with a purity grade of less than $1\text{mg}/\text{m}^3$. The dust is transported by a spiral conveyor to the briquetting press, which turns the dust, along with the cuttings, into briquets.

Separation | Off-cuts

The separator divides the material from the dust-laden air. While the carton or the foils are sent for compaction. The transport air is cleaned in the filters.

Control software

A centralised extraction lies at the heart of the production. Optimal function and availability can only be guaranteed if the software is adapted to all the plant processes. Hunkeler programs all systems in their own software and control department and can thus offer fully integrated support, even with a remote system.

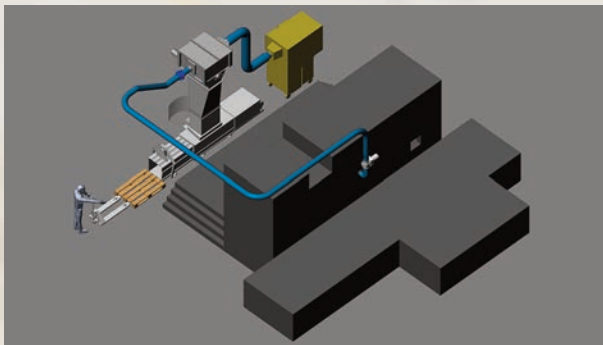
Production safety and automatisisation

Exceptional quality

Our products fulfil the highest requirements in terms of safety and reliability. We offer custom-made system solutions for a wide range of production areas. The waste is collected where it is produced, via a funnel or pipe connection and extracted. This means higher production speeds, production safety and last but not least it reduces the development of dust in the production environment.

Flexible packaging

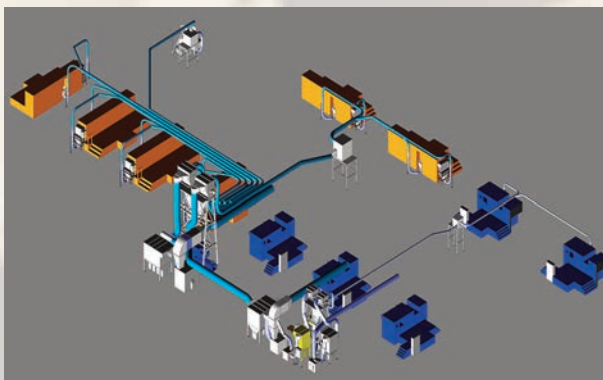
The perfected extraction system for embossed foil waste is known for its flexibility and capacity to be extended. Production waste is input for our system, and positively supports the production processes at the same time. The extraction system collects the waste and the dust at the production site, transports it over a closed duct system to the disposal centre and delivers the output, for example as compact bales. The dust-laden transport air is cleaned in the Jet-Filter and can be exhausted outside or returned to the production room, as desired.



Grey cardboard

The economic efficiency of an extraction system begins with the collection of production waste directly at the production point of the die-cut machine. To guarantee product protection, the shredding of complete print sheets and false prints is indispensable.

Tailor-made system solutions for the packaging industry are an integral component of production and optimise the speed of the die-cut machines.

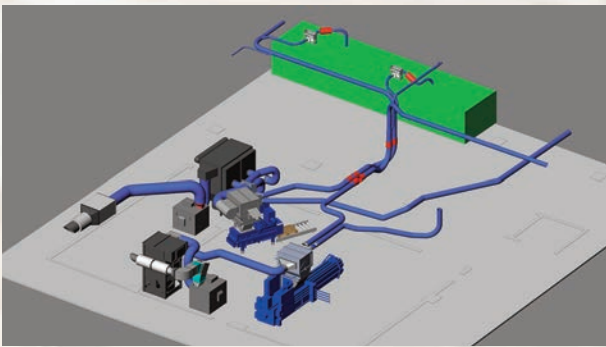


Engineering made to measure

Our engineering department also includes the software development team. The close collaboration of the sales- and project management team enables us to provide tailor-made and needs-oriented solutions, which we perfectly integrate into the customer-specific operating processes as well as the spatial situations.

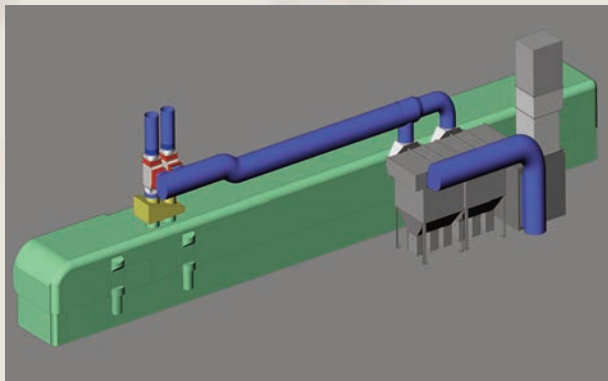
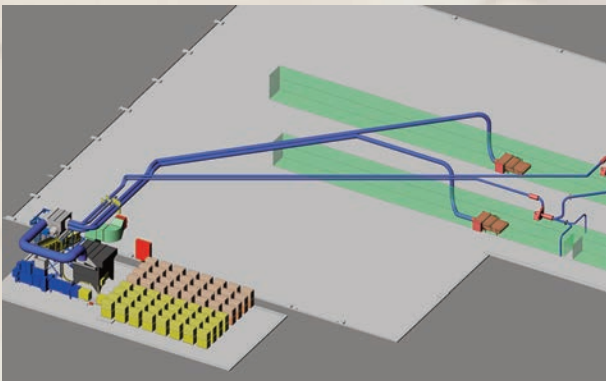
Metal and aluminum

The customer-specific extraction system for production waste when manufacturing aluminum lids, coffee capsules and various containers for the food industry impresses with its flexibility and expandability. The production waste is the input for our system, whereby at the same time the uptime of the Rychiger, Optima or Syntegon machines is positively impacted. The suction system collects the waste online at the point of occurrence, crushes and transports it via a closed pipeline system to the disposal center and delivers stackable, compact bales as output.



Corrugated cardboard and de-dusting

In the dynamic corrugated cardboard industry, the production processes are supported by Hunkeler Systeme. For the efficient disposal of multi-layer production waste, Hunkeler works with upstream shredding devices, in order to layout the entire plant for maximum efficiency. De-dusting is of special significance, as it is the decisive step in ensuring clean production.





Rotating shredder

The die-cut waste shredder reduces large surface waste and punch trimmings from die-cut machines. The punch waste falls in a steady stream through the shredder gate in the production machine and are reduced with hard metal cutting blades.



Tube shredder

The tube shredder is used according to the requirements of the project and integrated into the ducting. The shredding contributes to the volume reduction and enables the energy efficient transport of trimmings via the duct line.



Horizontal shredder

Large surface carton packaging or drum cores are prepared for transportation by the horizontal shredder. The horizontal shredder is characterised not only by its great capacity but also by the low decibel level. Various construction sizes are available, depending on sheet sizes to be processed.



Transport and chopper ventilator | HKZ

Various types of transport and chopper ventilators for heavy waste material are available according to requirements. The HKZ carton shredder shreds cardboard waste and whole cardboard boxes.



4-shaft shredder

The mature and proven RS machines are characterized by very high reliability, insensitivity to foreign bodies and a compact design. The use of these machines is extremely varied and ranges from paper, cardboard, plastics to metals.



Transport belts, crane systems and tipping devices

Accessory devices for the secure transport and handling of the waste are used as required for each project. Customer specific crane systems guarantee operation without personnel.

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