

Project report



Compression with the aid of Strautmann

In the range of disposal technology, Gerolsteiner, the German market leader in the field of top mineral waters, fully and entirely decides in favour of Strautmann environmental technology.

Foil



Cardboard



PET-bottles



Gerolsteiner Brunnen GmbH & Co. KG

Gerolsteiner has been Germany's most popular mineral water brand for many years. Gerolsteiner mineral water owes its special character to its origin from a source in the Vulkaneifel, a region of unique geological condition.



2.3 million glass and PET bottles are filled with mineral water and refreshments based on mineral water every day. The PET reusable units are usually sorted out after eight cycles and must then be fed into the recycling process. Whereas the bottles were pressed into bales for disposal in the past, the industry has meanwhile invested in fully automatic briquetting plants equipped with an automatic distribution system. The plants were installed without production downtime.

Compression of PET-bottles



Satellite-type distributor

A special feature of the plant is the satellite-type distributor at the briquette discharge. Up to three containers can be filled equally. The outlet points are fully automatically approached thanks to level sensors. The messages concerning the level in the containers can be directly transmitted to the container service and the haulage contractor upon request. Strautmann also delivers distribution systems equipped with integrated calibrated scales to safely determine the carrying capacity already upon collection.

The high quantities to be compressed call for a reliable machine

BrikPress®



Availability: 24 | 7

As Gerolsteiner is producing non-stop, the responsible persons chose 2 redundant devices with reduced performance. Maintenance work can therefore be carried out during the production process thus avoiding any idle times.

Automatic compression

The press is automatically filled via the exhaust system. Up to 1,000 additional bottles can be collected during one fill by means of a turn and tilt forklift.

Customer's opinion

„The reliability of the whole system convinced us. Furthermore, Strautmann's good customer support was a decisive factor for the purchase of the plant.“



E. Kirstgen, Director Recycling-center, Gerolsteiner

Decision criteria

+ Very good service & customer support

Maintenance work is regularly carried out by Strautmann mechanics during the production process.

+ Optimizing internal logistics

Due to the removal of the containers, the staff saves 2 - 3 working hours. Loading by means of a forklift is not required.

+ Fully automatic operation

The filling, the compression and the discharge of briquettes are controlled fully automatically. Staff requirement for the operation of the presses is reduced to one patrol tour a day.

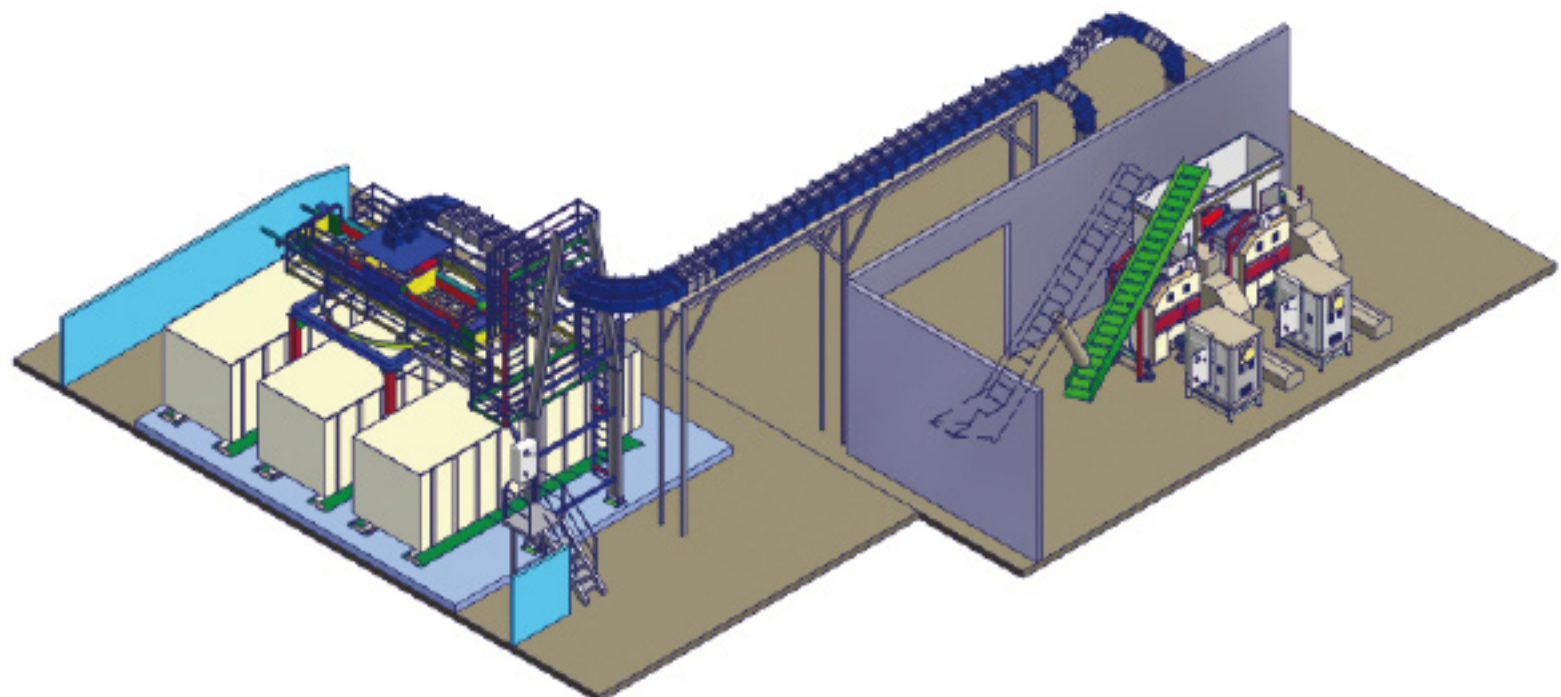
+ Transport capacity

A transport now comprises at least 22 t. Thus, transport and logistics costs are successfully reduced.

+ Highest revenues

The briquettes with a high briquette density are directly marketable and offer maximum proceeds.

Project drawing of briquetting plant



Compression of foil and cardboard packaging

For the disposal of foils, Gerolsteiner also uses a Strautmann baling press. Thus, bale weights up to 550 kg are reached.

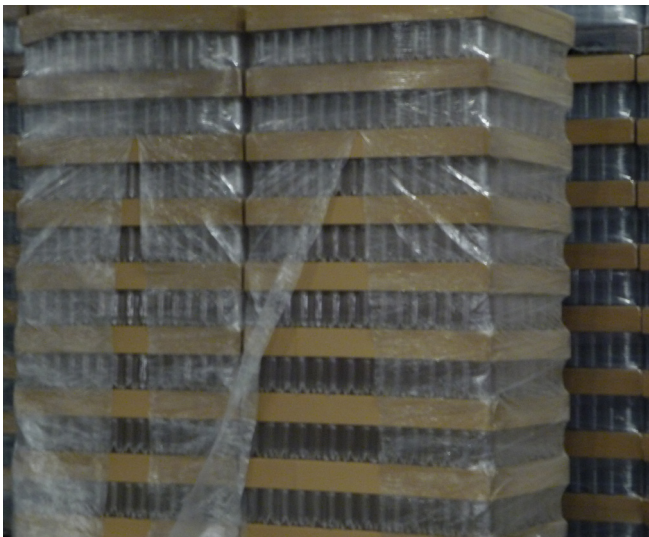
Mr. Kirstgen, head of the Gerolsteiner recycling centre, explains: „We also decided in favour of the Strautmann environmental technology (BaleTainer®) for the compression of our cardboard packaging. Due to the higher bale density, a larger quantity of waste can be processed. Furthermore, less staff is required.“

According to Mr. Carsten, head of the Gerolsteiner facility management department, the last old horizontal baling press used for the compression of perforated PET bottles, is now to be replaced by a Strautmann briquetting press.

With Strautmann as its partner for the disposal of reusable materials, Gerolsteiner implements an efficient and environmentally friendly disposal.

New glass bottle plant

Disposal of cardboard layers



BaleTainer®



Fully automatic feeding

A tray take-off device uses vacuum to automatically transport the slip caps and cardboard layers to a conveyor. The feeding to the insertion device of the BaleTainer® is carried out fully automatically.

Large filling opening

The large feed opening of the BaleTainer® permits direct insertion of the cardboard trays into the BaleTainer®.

Compact machine

„The compact design of the Strautmann machine also played an important role – due to the comparatively small dimensions, nothing stood in the way of the installation into the production plant or into the production process.“

Directly marketable bales

The cardboard bales with a weight of up to 550 kg are also directly marketed - they are directly transported to the paper mill without being pressed into another form.