

## Separation of paper labels from plastic material

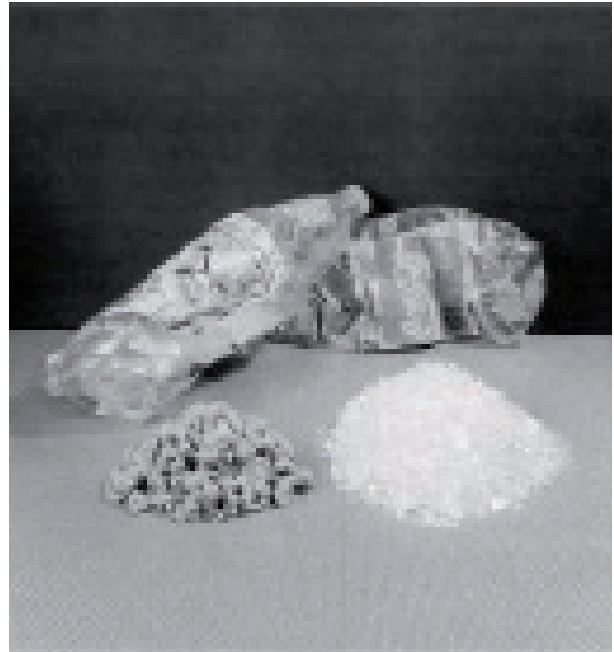
A new procedure makes an economic refeed of in-mould-labeled containers possible.

This new HERBOLD development is quite interesting for all regeneration companies. But it also paves the way for new recycling possibilities for producers of plastic bottles and plastic containers as well as bottlers.

The way out that Herbold discovered is: Wet size reduction – reducing the containers by injecting water and profiting from the emerging friction for removing the labels. For this purpose, Herbold can provide special wash granulators in a corrosion-resistant execution with bearings placed outside.

In one of the subsequent buffer silos downstream of the wet granulator, the material is then watered and later forwarded to a mechanical dryer: the T 1015 or the T 1016 are ideal for separating the paper fraction from the plastic material.

The origin of the paper is not important: whether it is derived from labels or from protective covers or originally from a product mix. After wet grinding in a wash granulator and the passage of the grinding material in a dryer, the resulting material is extremely clean and free from paper.



The tightly adhering labels on the otherwise clean material so far complicated the processing of this kind of plastics waste. Dry processing with air classifiers failed. Melting filters of a special construction type proved to be too complex. So one felt obliged to cut out the labels from the discarded material – an enormously time-consuming and expensive procedure, even disregarding the inevitable material loss.



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- » Pulverizing Systems

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- » Pre-washing Units
- » Friction Washers
- » Separation Tanks and Hydrocyclones
- » Mechanical and Thermal Drying
- » Water Processing

### Agglomeration

- » Plastcompactors

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