

Recovery of Product From Packaging

Problem

The need to recover product from packaging due to:

- Damaged packaging
- Out of weight contents
- Incorrectly printed packaging
- Damaged contents which can be reprocessed

Requirement

An automated means of:

- Opening the packaging
- Removing the product from its packaging
- Separating product from the packaging
- Recovering re-usable product/collecting redundant packaging



Solution

A de-packaging variant of a Kek Centrifugal Sifter, tailored to suit the precise needs of the customer, the application and the product/packaging combination concerned, comprising:

- Feed hopper with steep inclined sides and large outlet to prevent bridging
- Special serrated feed auger to cut upon the packaging
- Rotating scroll to separate the product from its packaging and to promote flow through the sifter
- Sifting screen of a size and type to deliver the product to one discharge point and the waste packaging to another



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Benefits

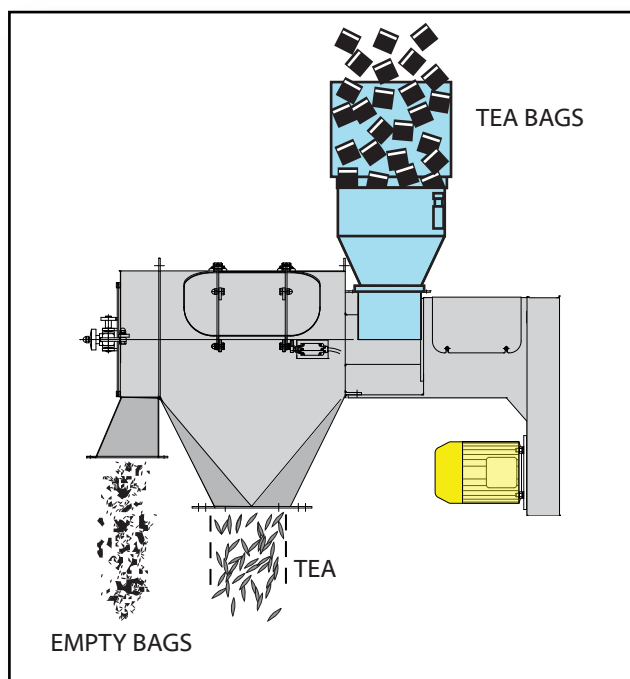
- Eliminates a potentially labor intensive operation
- No risk of product contamination from operatives
- Totally contained, dust-free operation
- Cost effective means of recovering good product which would otherwise go to waste
- Reliable, low maintenance, low running cost equipment

Applications

- Boiled sweets
- Tea bags
- Coffee sachets
- Other instant drink packets
- Sugar sachets
- Salt and pepper packets
- Packaged cookies and crackers
- Detergent tablets
- Soup packets

Considerations and Limitations

- 100% separation may not always be possible, according to the packaging material and its reaction to the serrating scroll, a small amount of packaging may find its way through the screen with the product. This can often be easily removed by an airstream separator.
- Some particularly friable products may become damaged or more damaged as a result of de-packaging. After further processing, these can often become an ingredient re-cycled into the original product or introduced into some other product line.
- Kek Cone Mills are an ideal partner for Centrifugal sifters on de-packaging applications. They are specifically designed to mill food products which are heat sensitive, moist, fatty, sticky or otherwise difficult to mill.



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