Scrap rework



Fully automated rework systems for bread and biscuit scraps.



Dry and liquid rework Reduces material consumptions and waste Fully automated No loss of food properties

Special applications
Scrap rework

www.cepisilos.com cepisilos.com/contact cepisilos f □ in ••





Fully automated dry rework systems for bread and similar products such as toasts, loaves and sandwiches. The final product can be fed back into production in place of flour, sold, used for animal feed, or worked again to produce croutons or bread crumbs.

Dry biscuit rework systems are also completely automated are re-use the powders on the production line. Product can be put directly on the conveying line.

Liquid biscuit rework system for the recovery of sandwich biscuit scraps. Scraps are broken and mixed with liquid inside a stainless steel tank with agitator, creating an emulsion that can be dosed directly on mixer to produce more biscuits.

With less material consumptions and reduction of waste, reworking scraps is good for the planet. It leads to excellent return on moderate investments within a short time period. The process eliminates the need to store scraps and guarantees a high quality end product with no loss of food properties.



Features & Technologies: Bread rework

Fully automated

For bread and similar products such as toasts, loaves and sandwiches

Final product can be fed back into production in place of flour, sold, used for animal feed, or worked again to produce croutons or bread crumbs

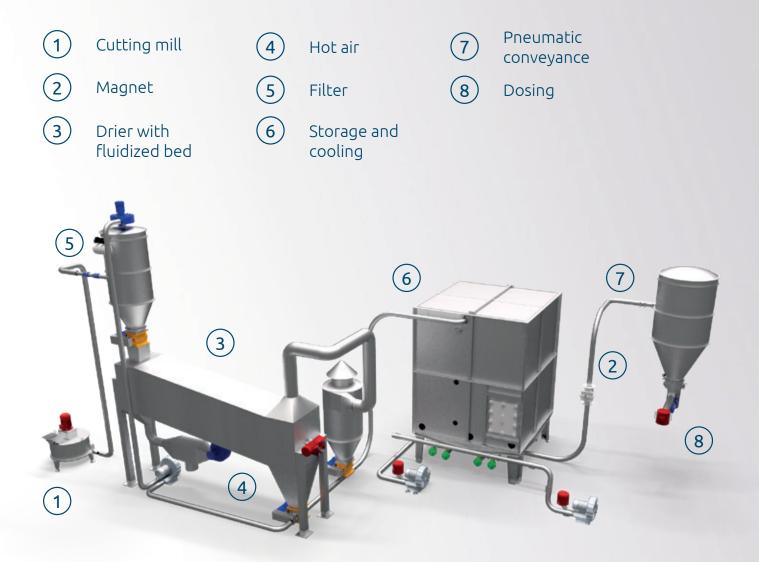
Loading, drying, cooling, grinding and storing with temperature control

Pneumatic conveyance

No more scrap storing

No loss of food properties

Weight control in real time, integrated automation and full traceability



Special applications **Scrap rework** www.cepisilos.com cepisilos.com/contact cepisilos **f i i i ·**



Bread rework: the process

The scraps are first ground in a cutting mill placed at ground level to facilitate loading. Loading can be done both manually from the sacks, or directly from the line, and also from different locations through the conveyor belts.

The product is then transferred by vacuum to a hot-air dryer with fluidised bed and filter. During this phase the product acquires all necessary features for the various applications it is being recovered for.

After this the product is sent through pneumatical transport in a silo for storage with controlled temperature. The silo has a capacity of about 8 tons, is made of panels in stainless steel with fluidized bed.

The resultant re-work can be fed back into production, sold for animal feeding, or further worked to produce to bread crumbs (by adding a hammer mill in the installation) or crouton (by using an extruder.)



Use your production scrap to make croutons and bread crumbs

Special applications **Scrap rework** www.cepisilos.com cepisilos.com/contact cepisilos **f i i i ··**



Features & Technologies: Dry biscuit rework

Fully automated

Loading, grinding and storing with temperature control

Pneumatic conveyance

No more scrap storing

No loss of food properties

Weight control in real time, integrated automation and full traceability



www.cepisilos.com cepisilos.com/contact cepisilos **f D** in ••





Biscuit rework system and cutting mill detail

Special applications Scrap rework

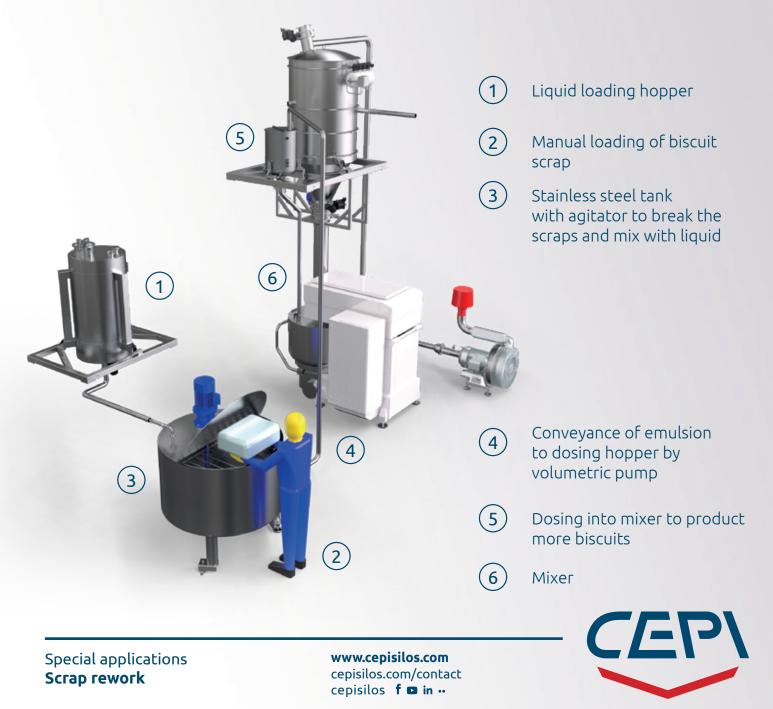
www.cepisilos.com cepisilos.com/contact cepisilos **f D** in ••



Features & Technologies: Sandwich biscuit rework

Fully automated Liquid recovery by addition of oil or water Loading, breaking and mixing with liquid, conveyance of the resulting emulsion to the mixer Breaking and mixing in stainless steel tank (which can be heated or double-jacketed) No more scrap storing No loss of food properties Fully customized and suitable to variable production volumes

Weight control in real time, integrated automation and full traceability





Sandwich biscuit rework: the process

Scraps are loaded manually (1) into a stainless steel tank with agitator and liquid (oil or water) is loaded by weighing liquid hopper (2). The biscuits are broken and mixed with the liquid inside the tank (3), creating an emulsion. The emulsion is conveyed (4) on a dosing hopper by volumetric pump (5) and dosed on mixer (6).







Product and process analysis Engineering and control Direct manufacture Project management Installation and commissioning Monitoring and service





Bakery & biscuits Confectionery Pasta & Cereals Dairy Premix

Functional food Baby food Pet food Chemical Pharmaceutical