



Product News

Flexicon (Europe): Mobile Sanitary Conveyor Bag Dump System

Edited by on 4. Apr. 2022

Whitstable, United Kingdom -

Dust generated from both dumping and compaction is drawn onto the system's two cartridge filters. An automatic reverse-pulse filter cleaning system releases short blasts of compressed air inside the filters at timed intervals. This causes any dust built up on the outer surfaces to fall into the hopper, conserving useable product. Filters are readily accessed by removing the interior baffle, and replaced using quick-disconnect fittings.



Flexicon Mobile Tilt-Down Flexible Screw Conveyor with Integral Bag Dump System can be deployed anywhere in the plant to transfer manually-dumped material into elevated process equipment, and compact empty bags, dust-free.

The compactor employs a pneumatic air cylinder to compress 50 to 80 empty bags into a removable bin lined with a plastic waste bag for dust-free tie-off and disposal. The main door, and a flapper door within the bag infeed chute, are equipped with safety interlocks that prevent operation of the compactor unless both doors are closed.

The hopper discharges into an enclosed, 4.6 m flexible screw conveyor that handles a broad range of materials including free and non-free-flowing bulk solids ranging from large pellets to sub-micron powders, including products that pack, cake, seize, smear, fluidise, or crumble, with no separation of blended products. The flexible screw is the only moving part contacting material, and is driven by an electric motor beyond the point at which material is discharged, preventing material contact with seals.

The Bag Dump Station, support boom and conveyor assembly can be tilted down to manoeuvre through standard doorways and aisles, and around corners for use anywhere in the plant.

The entire unit can be rolled to a cleaning station where a lower clean-out cap on the conveyor tube can be removed to flush the smooth interior surfaces with steam, water or cleaning solutions, or to fully remove the flexible screw for cleaning and inspection.

The system is available in carbon steel with durable industrial coating, with stainless steel material contact surfaces, or in all-stainless steel (shown) finished to industrial, food, dairy or pharmaceutical standards.

Flexicon also manufacture other configurations of bag dump stations and flexible screw conveyors, as well as tubular cable conveyors, pneumatic conveying systems, bulk bag dischargers, bulk bag conditioners, bulk bag fillers, drum/box/container tippers, drum fillers, weigh batching and blending systems, and engineered plant-wide bulk handling systems with automated controls.