PRODUCT DATA SHEET

Material Handling Systems

Bag Break & Bulk Bag Unloading

Overview

RELCO material handling systems are designed for the safe, efficient, and sanitary transfer of powders and bulk materials throughout processing and packaging operations.

Solutions include 20–25 kg bag break stations and bulk bag unloading systems, engineered to meet USDA sanitary requirements while maintaining product integrity and minimizing dust. Systems are configurable to support varying product characteristics, plant layouts, and throughput requirements, and can be integrated seamlessly into conveying, batching, and packaging processes.

From manual ingredient introduction to bulk material discharge, RELCO systems prioritize operator safety, clean operation, and consistent material flow.

Key Features

Bag Break Stations

- Designed for sanitary applications with stainless steel construction and polished welds
- Provides efficient manual introduction of powders into downstream systems
- Large tipping area supports safe, ergonomic bag handling
- Deep recessed grate ensures consistent product flow into the hopper
- Oversized plenum helps contain dust during operation
- Integrated dust collection connection maintains a clean working environment
- Gas strut-assisted access improves operator usability and safety
- Tool-free removable grate simplifies cleaning and maintenance
- Designed for integration with pneumatic conveying systems

Available Options:
Integrated dust collection • Overhead bag feed systems • Sifters • Lump breakers • Rotary valves • Custom configurations based on application requirements

Key Features

Bulk Bag Unloaders

- Designed for controlled unloading of bulk bags across a range of sizes and product types
- Sanitary receptor tube with secure spout clamping minimizes dust and product loss
- Stainless steel construction supports hygienic operation and long-term durability
- Modular frame design allows flexible layout and system configuration
- Vibration and optional bag massagers improve discharge for difficult or less free-flowing products
- Spill containment features reduce product loss and improve cleanliness
- Adjustable frame orientation supports integration into various plant layouts
- Iris valve allows controlled product discharge and partial bag handling during changeover
- Dust collection connections support clean bag change operations

Integrated Handling & Support Systems

Bag Handling & Hoist Systems

Configured to support safe and efficient positioning of bulk bags, including single or dual hoist arrangements to improve changeover efficiency and throughput.

Discharge Control & Feeding

Loss-in-weight and volumetric feeding options are available to provide accurate batching and consistent downstream processing.

Dust Management

Systems are designed to integrate with plant dust collection to maintain a clean and safe operating environment.

System Flexibility

RELCO material handling systems are engineered to adapt to specific application needs. Equipment can be configured from basic manual solutions to fully integrated systems, depending on operational requirements, product behavior, and facility constraints.

Designs support integration with upstream and downstream process equipment, ensuring a cohesive and efficient overall system.

CONTACT RELCO
relcosales@kss-sep.com
www.relco.net