PRODUCT DATA SHEET

Blending

Overview

RELCO provides custom blending systems designed to achieve consistent, high-quality mixing of dry powders with optional liquid addition. Systems are engineered to ensure controlled ingredient handling, uniform distribution, and efficient transfer to downstream processes such as packaging.

Capabilities

- Blending of powders with varying particle sizes and bulk densities
- Controlled liquid addition (e.g., flavors, aromas, oils)
- Batch and continuous blending configurations
- Integrated ingredient handling and transfer systems
- Direct discharge to packaging or further processing

Available Mixer Types

- Ribbon
- Paddle
- Vertical
- Continuous
- Lindor
- Ruberg

Key Design Considerations

- Blend uniformity requirements
- Production rate
- Liquid addition needs
- Cleanability
- Available space

Typical Products

- Whey Protein (WPC, WPI)
- Lactose & Permeate
- Milk Powders (Whole, Skim)
- Sugar blends

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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.