



Product Digest

this month's topic **Solids Handling**

Bulk Container Integrates with Existing Filling Lines



The P-433 Ship Shape bulk forklift container is designed to move and store bulk chemicals, pharmaceuticals, and other products. The waterproof, polyethylene container has a 44-in. by 44-in. footprint, and is designed for a maximum payload of 700 lb. Its rigid walls and cover eliminate the bag tying, stitching, and sealing, as well as the potential for sidewall collapse, common to flexible bulk bags. The container does not require a pallet for forklift transport, and is available in 16 standard colors. Optional accessories include molded-in logos, industrial-strength casters, and tamper-evident closures.

Meese Orbitron Dunn Co.

www.ShipShapeContainers.com

Screener Features Gap-Free Screen Frames



The Vibroscreen model K30-1-SS 30-in. sanitary screener is constructed of stainless steel, and meets current good manufacturing practices (cGMPs), U.S. Dept. of Agriculture, and Food and Drug Administra-

tion standards. Its screen frames are designed with quick-disconnect clamps and no gap between the screen ring and frame wall, which eliminates the area where material could collect and lead to product contamination. The clamshell lid allows the upper frame to be raised and held in the open position by gas pistons, which provides access for screen changes and washdown of all interior surfaces. A removable, high-strength magnet at the discharge spout can capture ferrous material contaminants.

Kason Corp.

www.kason.com

Unloading Station Has Dust-Tight Connection



The BBUone is a bulk bag unloading station that optimizes dust-free material flow from the bag to a vacuum conveyor and downstream processes. It has a 2-ton capacity and a patent-pending dust-tight connector to the feed hopper. The discharge chute connector contains product flow, and prevents dirt and other waste material that has collected on the underside of the bulk bag from contaminating the

product. The BBUone is available in forklift and hoist versions, and can be customized with frame extension sets and electric chain hoists. Optional accessories include material agitators, manual or pneumatic covers for the material discharge module, and dust collectors.

Volkman, Inc.

www.volkmanUSA.com

Bag Dump Station Meets Stringent Sanitary Requirements



This sanitary bag dump station meets U.S. Food and Drug Administration standards and current good manufacturing practices (cGMPs) for product safety and cleanliness. The station protects the product from contamination, improves cleaning and inspection performance, and ensures optimal compliance contribution (OCC). Its design has eliminated the joint flanges where material buildup can occur, and features a single-sheet hopper and hood formed of Type 304-2b stainless steel, and a large 42-in. operator access area. Quick disconnects allow for tool-less grate and filter removal, as well as single-step reassembly. The filtration system has a MERV 11 efficiency to protect personnel from dust releases.

National Bulk Equipment, Inc.

www.nbe-inc.com

Roller Mill Processes Large Particles



The Raymond 120-in. roller mill system is able to dry, pulverize, classify, and deliver granular to fine particles. It can handle feed particle sizes of 10–70 mm, and is suitable for materials that are classified as 5 or less on the Mohs scale of hardness. The roller mill controls product size and quality using a minimum amount of power. Additional features include journal assembly, vertical shaft hub connection, and fabricated plow support.

Alstom

www.alstom.com/us

Screening Machine Inhibits Sparking



The Tumbler Screening Machine's (TSM) three-dimensional action maximizes product contact with the screen surface. It is suitable for fine and ultrafine screening, can have up to five

screening decks to separate material into six fractions, and offers separation precisions of up to 99%. To reduce the risk of explosions, the TSM has been designed to eliminate potential electrical and nonelectrical ignition sources, such as insulated parts that could accumulate electrostatic charge, material friction, hot surfaces, and mechanically generated sparks.

Almo Process Technology

www.almoprocess.com

Perforated Fines Deck Reduces Blockages in Classifiers



This perforated fines deck removes the fines and chips from on-spec plastic pellets in vibrating pellet classifiers. It is constructed of Type 304 stainless steel, and has a repeating pattern of smooth punched holes as small as 0.077 in. It can be customized to accommodate any pellet or particle size specifications. The fines deck requires less cleaning and is less prone to blockages than typical wire mesh screens. When periodic cleaning is needed, the perforated fines deck can be removed in seconds and returned to position without using any tools.

The Witte Co.

www.witte.com

Filler Accommodates Various Bulk Bags, Boxes, and Drums

This multipurpose filler dispenses bulk solids into boxes, drums, and bulk bags by weight. Its fill head seals against the inlet spout of bulk bags, or



connects to transition adapters that seal against open boxes or drums. The filler uses the patented Twin-Centerpost frame to improve operator accessibility to the fill head. An automated vibratory system raises and vibrates the container deck to deaerate and densify the material in order to stabilize the container. The filler features a manual fill-head height adjustment to accommodate all popular bag sizes, pneumatically retractable bag hooks, an inflatable connector to seal the bag inlet spout, and a feed-chute outlet port for dust-free air displacement during filling. The unit may be constructed of carbon steel with an industrial finish, or stainless steel with a food- or pharmaceutical-grade finish.

Flexicon Corp.

www.flexicon.com

Seamless Drum Limits Entrapment Risks

This stainless steel seamless drum is designed to store and transport high-purity products. It has a crevice-free interior to inhibit entrapment of residual materials, and is sanitary for food-grade applications. The drum has a capacity of 55 gal and is constructed of Type 304 stainless steel. The removable cover and straight, seamless sides allow for complete emptying and cleaning. A closed-head version with drop-forged flanges that is suitable for corrosive liquid applications is available.

Skolnik Industries, Inc.

www.skolnik.com