

MATERIAL TRANSFER



Material Handling Equipment & Integrated Systems

Bulk Bag and Drum Discharging System

The Application:

A leading chemical manufacturer contacted Material Transfer, looking for a solution to unload four different types of pharmaceutical powders from both bulk bags and drums, into one common outlet.

The materials were as small as 20 microns in diameter and often caked, smeared, bridged, and packed during routine material handling. This system needed to be easy to clean, constructed from a polished 304 stainless steel, and designed for Class I & II, Division II, Group C, D, and G service.

The Solution Provider:

Material Transfer & Storage of Allegan, Michigan specializes in custom designed material handling equipment. Their product line includes container, drum, and bulk bag discharging systems as well as bulk bag fillers and conditioners. Material Transfer has been providing custom material handling solutions for customers in the food, chemical, pharmaceutical, and plastics industries since 1989.

Custom Designed Solution:

Factory representatives met on site with the customer, reviewed the unique application requirements, and discussed various concepts. Material Transfer made equipment recommendations, and then supplied detailed proposals and sales drawings. After reviewing numerous bids, the customer selected Material Transfer based on exclusive design features, and a long history of positive past experiences with their equipment.

A 180° rotation, hydraulic Lift & Seal™ drum discharging system was engineered to receive a drum of material from a stainless steel roller conveyor and automatically dock the rim of the drum to the inlet of a dust-tight, stainless steel pour cone. The sealed drum and cone are lifted, rotated a full 180°, and then docked to a custom-built stainless steel “Y” transition. A

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pneumatically actuated stainless steel butterfly valve is opened, releasing the material through the “Y” transition and into the customer’s process.

Material Transfer designed a stainless steel bulk bag discharger to accept a bag loaded with the customer’s existing hoist system. The unit included a Seal-Master™ bag spout access chamber and the Sure-Seal™ spout clamping system for dust-tight operation. A Flo-Lock™ gate was provided for reliable partial bag discharging and spout closure. A hydraulically actuated Flo-Master™ bulk bag massaging system with stainless steel, tubular “breaker bar” design promotes reliable discharge of non-free flowing, hygroscopic materials. The bulk bag discharger was integrated with the “Y” transition from the drum discharger to consolidate the material output to a single outlet point.

The system provided a safe, sanitary, and dust-tight method of discharging material from both drums and bulk bags into a single common product stream. For more information please contact Material Transfer at (800) 836-7068.



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