

MATERIAL TRANSFER



Material Handling Equipment & Integrated Systems

“Double Stack” Material Master Bulk Bag Conditioner

The Application:

A leading chemical manufacturer contacted Material Transfer, looking for a solution to discharge a chemical powder from their bulk bags. The chemical powder was explosive, flammable, a skin irritant, and hardened into a solid block inside the bulk bag, making discharging the contents impossible with traditional means. Operators utilized baseball bats and forklifts in an effort to break up the material so it would discharge from the bulk bags, which created both a safety concern and an operational bottleneck. The bulk bags were shorter than typical, and were stacked two (2) high on pallets for storage. The customer wanted to break up the hardened material in each bulk bag, while loading each pallet into the unit in the original “double stack” configuration. The customer required that their bulk bags of product be tested to confirm design feasibility prior to equipment investment.

The Solution Provider:

Material Transfer, located in Allegan, MI, specializes in custom designed material handling equipment to meet customer’s specific application requirements. Their product line includes bulk bag conditioners, bulk bag dischargers, bulk bag fillers, custom



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container and drum discharging systems, and integrated systems. Material Transfer supplies solutions to a wide range of customers in the food, chemical, and plastics industry.

Custom Designed Solution:

Material Transfer discussed the customer's objectives, then provided concept drawings of three (3) different alternatives, along with budget prices for review. The forklift loaded "double-stack" conditioner concept was selected as the best option, and sample bulk bags of material were sent to Material Transfer for testing. Material Transfer tested the bulk bags of product in its in-house Material Master Hydraulic Bulk Bag Conditioner. The test unit reduced the agglomerated materials to a size which gravity flowed from the discharge spout of the bulk bag. A CD-ROM of the successful testing was provided to the customer for review. The customer was so encouraged by the results of the first test, that they visited Material Transfer's facility to witness another conditioning test in person.

After testing, and further discussions, Material Transfer recommended a Forklift Load Material Master Hydraulic Bulk Bag Conditioner that featured a hydraulic lift table with an integrated manual turntable. The unit would accept two (2) stacked bulk bags loaded on a single pallet, and would individually condition all four (4) sides of both bags. A proposal was generated for this concept, along with a concept drawing to confirm fit. The customer ordered the equipment from Material Transfer because they had utilized Material Master™ hydraulic Bulk Bag Conditioners for three (3) other applications, and were very pleased with the performance. The customer now experiences efficient material discharge, enhanced operator safety, and reduced operator involvement.

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