

MATERIAL TRANSFER



Material Handling Equipment & Integrated Systems

MATERIAL MASTER POWERFILL™ BULK BAG & DRUM FILLING SYSTEM

The Application:

A leading chemical manufacturer contacted Material Transfer looking for a system to fill Sodium Percarbonate into single lined drums, or two (2) different size bulk bags at a rate of fifteen (15) bags per hour. The system needed to incorporate



full pallet handling capabilities, including the ability to dispense three (3) different types and sizes of pallets (2-way, 4-way, or nestable OSB) into the filler unit, and automatically discharge the filled containers on pallets for forklift removal. The equipment needed to be reliable, PLC controlled, and easy to operate from floor level.

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 bulk bag conditioners. Material Transfer has been providing custom material handling solutions for customers in the food, chemical, plastics, and pharmaceutical industries since 1989.

Mail Invoices and correspondence:
PO Box 218
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Freight shipments:
1214 Lincoln Road
Allegan, MI 49010-9077

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Custom Designed Solution:

The local Material Transfer representative met on site with the customer on multiple occasions to discuss the application requirements, project objectives, space constraints, and possible layout options. Material Transfer provided equipment recommendations, detailed proposals and system concept drawings. After reviewing multiple bids, the customer chose to partner with Material Transfer based on patented design features, ease of bag connection, and their thorough understanding of the customer's requirements.

A custom pallet dispenser automatically dispenses a pallet into the filling system. The bag fill carriage automatically lowers to a programmed operator height, extends 24" horizontally towards the operator, then rotates around a center axis for rapid, reach-free bag attachment. After bag connection, the bulk bag is automatically inflated, filled, and settled via an adjustable, high output densification system.

Once the fill cycle is complete, the bag inlet spout and straps automatically release, the fill head raises, and the filled bag is discharged via a three (3) zone powered accumulating conveyor. Filling system features Allen-Bradley Control-Logix PLC controls with a color PanelView operator interface for quick and easy access to system status, recipes, and operational parameters.

The system provides safe, efficient, dust-free filling of both bulk bags and drums, while allowing flexibility for future process changes. For more information please contact Material Transfer at (800) 836-7068.

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