

MATERIAL TRANSFER



Material Handling Equipment & Integrated Systems

Title: Custom Engineered Container Dumping Solutions

The Application:

A leading contract packager and manufacturer of food ingredients contacted Material Transfer, requiring container dumpers to empty containers of brownie and cake mixes into hoppers which fed existing packaging equipment. The new dumpers needed to accept containers loaded via pallet jack at



floor level, and provide a “sealed discharge” of the containers under a 10’ ceiling height. The dumpers also needed to be moveable, to allow for regular wash down of the equipment and process area.

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

Mail Invoices and correspondence:
PO Box 218
Allegan, MI 49010-0218

Freight shipments:
1214 Lincoln Road
Allegan, MI 49010-9077

Phone: 800.836.7068
269.673.2125
Fax: 269.673.4883

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Problems with Existing Dumpers:

The customer's existing container dumpers, supplied by another manufacturer, leaked product between the container and the dumper pour hood, resulting in loss of product, and additional cleaning time. The existing dumpers were difficult to clean, required loading with a forklift, and the cycle times were too long. The existing dumpers couldn't provide a reliable docking seal beneath the pour hood discharge valve because of a lack of dump carriage control.

Custom Designed Solution:

A local representative of Material Transfer visited the customer's site, discussed the customer's needs, and submitted a quotation request to Material Transfer. Material Transfer called the customer to review additional details, desired equipment features, and then provided an equipment proposal, complete with a concept drawing, CD-ROM equipment video, and photos of similar units with exclusive Material Transfer features.

The customer invested in two (2) Material Transfer, Low Level Lift & Seal™ Container Dumpers with a 60° dump angle, 304 stainless steel pour hood, 16" square roller gate, and a pallet jack moveable base. The containers are easily loaded into the unit with a pallet jack at floor level. Custom chamfered guides on the loading skip center the container beneath the pour hood for a proper seal. The exclusive MTS Lift & Seal™ system then raises the seal carriage vertically, hydraulically docking the top of the container against the pour hood. A custom hydraulic circuit ensures the container is securely docked to the pour hood, and automatically compensates for variations in container height.

The units features wash down duty tubular carbon steel construction with Steel-It® epoxy finish, and a 5 GPM Parker hydraulic system with Material Transfer exclusive two-speed operation for reduced equipment cycle times.

The customer now experiences clean material transfer, reduced equipment cycle times, and trouble free operation.

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