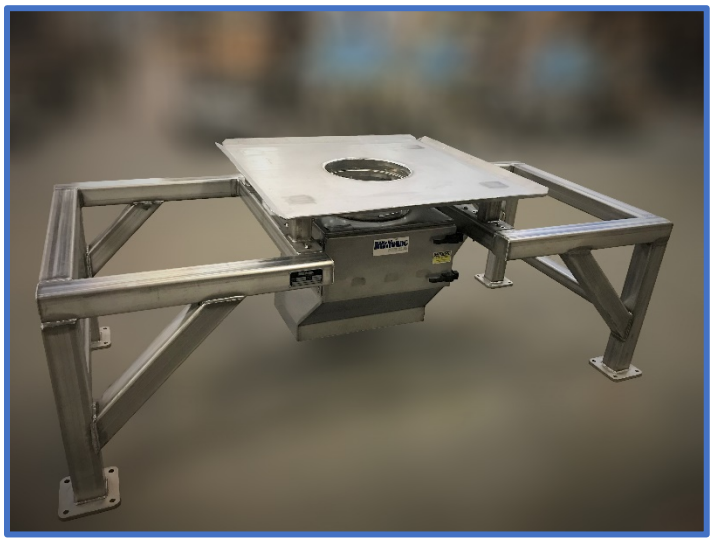
PRODUCT LINE REPORT

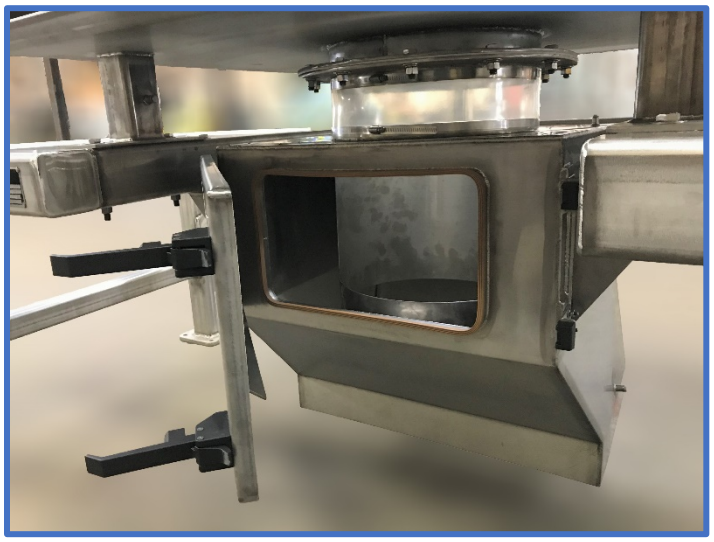
BULK BAG UNLOADING SYSTEM

ADVANCED TECHNOLOGY PROVEN DESIGN

Requirement: Bulk bags of various powders are loaded into an existing process vessel. The bulk bags were lifted by hoist and the operator reaches under the bag to untie the discharge spout. The powder flows freely from the bulk bag into the hopper below. The concern with this operation is operator safety. A system is needed to eliminate the operator from reaching under a suspended bulk bag. An added concern is that the environment around the tank is corrosive and carbon steel will rust quickly.



304S/S Frame with flat pan and Access Hopper



Hinged access door with rectangular chute

Solution: Young Industries Engineers met with the customer and established the available space to unload the bulk bags. A special support frame is needed to straddle the mix tank for powder to feed directly to the rectangular opening of the tank.

Young Industries provided a system rated to support a 2200 lb. bulk bag. A flat support pan with access hopper allows the operator to untie the bag safely through a hinged door under the pan. The special 8 ft. wide support frame straddles the process vessel. For long service life in the corrosive environment, all components of this system including the frame are 304S/S. The offset rectangular chute from the access hopper matches the opening in the customers process vessel. The system addresses the safety issues of reaching under a suspended bulk bag and is a clean solution for bulk bag unloading.