

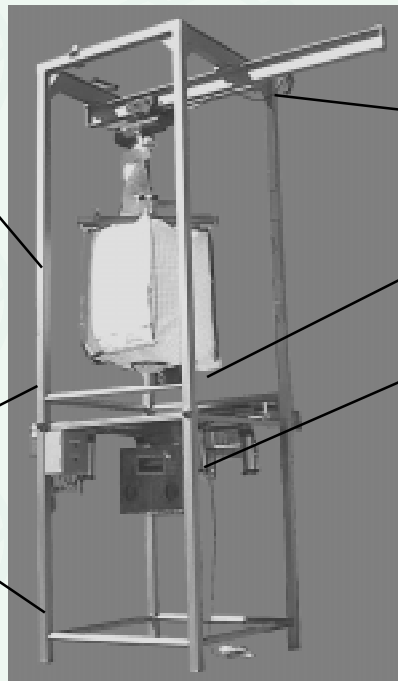
BULK BAG & CONTAINER DISCHARGE



SERIES 2000 BULK BAG UNLOADING SYSTEM

- Heavy-duty tubular frame with continuous welds and angled braces withstand harsh plant environments and helps maintain sanitation.
- All holes that penetrate frame members are sleeved to prevent contamination issues found in many competitive designs.
- Top frame section can be configured for use with hoists or fork truck bag placement.
- Heavy-duty lower support pan is divorced from the discharge tube assembly to assist in keeping bag bottom contamination out of the process stream.
- Lower spout access hoppers are engineered with gasketed doors, to seal off dust and provide maximum operator safety.
- Product flow can be controlled through a variety of optional valve systems.
- The Series 2000 can be produced as bolt together sections to accommodate shipping and assembly of taller units.
- Units can discharge either volumetrically or equipped as loss-in-weight systems.

ENGINEERED WITH FEATURES THAT BENEFIT BOTTOM LINE RESULTS



Base unit is constructed from heavy wall tubular steel with continuous welds facilitating better sanitation and allowing frames to be extended up to 24'0".

Truss members are placed at 45 degree angles to reduce surfaces where dust or product can accumulate.

Base frame can be equipped with loss-in-weight scale systems and can be incorporated into powered or pneumatic product feed systems.

Top section is engineered to accommodate bag placement by either fork truck or hoist assemblies. Fork truck models can incorporate optional pneumatic bag stretching.

Heavy-duty lower support pan features an annular gap between it and the discharge tube assembly to assist in keeping bag bottom contamination out of the process stream.

Lower spout access hoppers secure bag spout and can be equipped with either gasketed doors or glove boxes with view ports to reduce dust and provide maximum operator safety.

OPTIONAL CONFIGURATIONS:

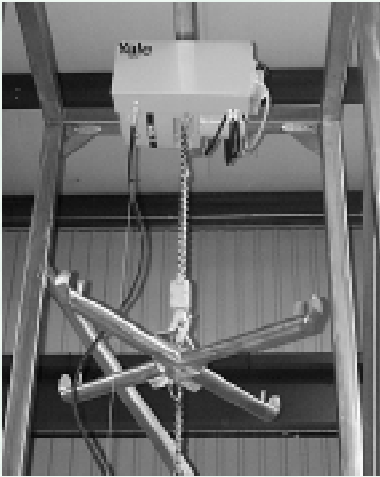
- Weighing systems
- Powered product feeders
- Powered or manual product control valves
- Glove box assemblies
- Electronic or manual chain hoists and trolleys
- Pneumatic bag stretching systems (fork truck models)
- Stainless steel support frame
- Stainless steel product contact parts
- Fork truck bag placement
- Pneumatic bag tension
- Small bag & drum dumping station

Typical Design & Performance Specifications

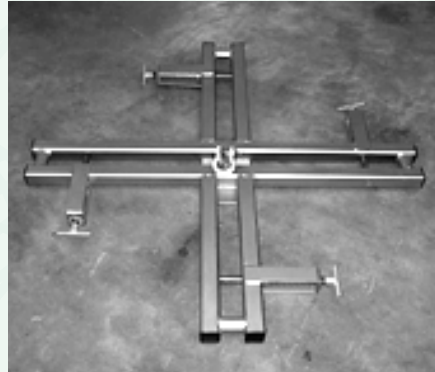
Maximum Container Weight	4400 lb. (2000 kg.)	Air Requirements	None (less options)
Container Style(s)	Bulk Bag	Power Requirements	None (less options)
Typical Accuracy	1/10th of 1% of target weight (w/optional scale system)	Overall Dimensions	Approx. 64" x 64" x 144"
Typical Fill Speed	Up to 10 bags per hour	Approx. Wt.	2300 lbs. (1043 kg.) less options

BULK BAG & CONTAINER DISCHARGE

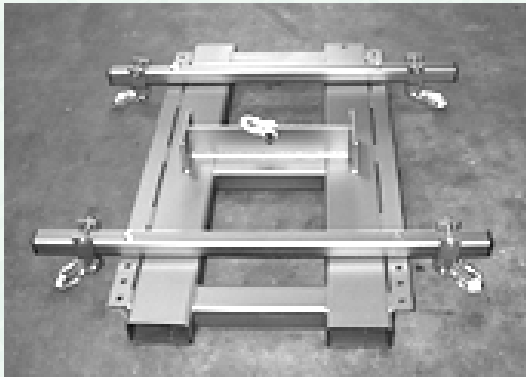
Tech Packaging Group offers the SHF Series of bulk bag handling systems for use in transporting and handling bulk bags by fork truck and/or hoist systems. All SHF Series units are available in carbon or stainless steel and most models are available in non-sparking aluminum construction.



SHF-B Captures the bag loops between extended retainer tabs. Easy to change bags. Designed for use with manual and powered overhead hoists.

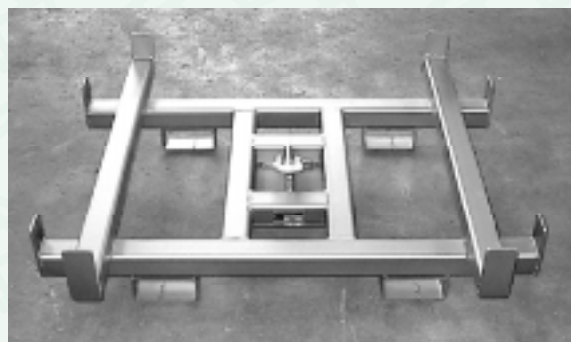


SHF-BL An innovative approach to applications with limited headroom. The SHF-BL utilizes a unique vertical/horizontal loop support system with spring loaded loop retention pins. Greatly reduces suspended height of bag without sacrificing safety. Designed for use with overhead hoists.



SHF-D Heavy-duty frame features lift arms and clevis hooks that adjust on dual axis to accommodate most all common bag sizes. Spring-loaded safety hooks retain bag loops securely. Designed for use with both fork trucks and overhead hoists.

SHF-C Dual lift arms arranged at 90-degree angles allow the SHF-C to easily and safely accommodate several different bag sizes on the same unit. The SHF-C is engineered for use with both fork trucks and overhead hoists.



DESIGN & PERFORMANCE SPECIFICATIONS

Maximum Load	4000 lb. (1814 kg.)	Hoist Hook Attachment	3/4" hardened screw pin rated for 5400 lb.s
Mat. of Construction	Carbon Steel (std.) Stainless Steel (optional) Aluminum (optional)	Bag Sizes	Base sizes from 18" to 43", depending on model
Fork Pocket Centers	28" (standard)	Finish	Painted - Acrylic Enamel

BULK BAG & CONTAINER DISCHARGE

TYPICAL SHF FEATURES AND APPLICATIONS



The SHF-C offers fast loading and unloading of bag loops, and like the SHF-D, is equally adept for use with hoists or fork trucks.

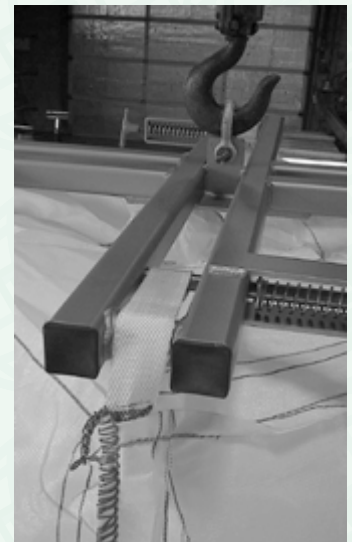


Rugged SHF-D is easily loaded onto standard fork truck arms. Safety holes located in fork tubes allow the unit to be anchored to the forks during transit.

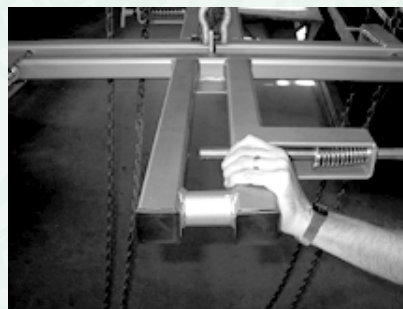
Safety style clevis hooks make for positive loop retention on the SHF-D. Shown here suspended from a hoist, the SHF-D and SHF-C can both be used to transport via fork truck and then be suspended from overhead hoists.



The unique engineering of the SHF-BL allows loop tension to be placed on the bag body vertically (as required for safe use) while holding the loop in a horizontal plane. The end result is superior loop tension and greatly reduced headroom.



The SHF-B is a safe and economical solution to bulk bag handling. It features an easy on/easy off bag loop system and is equipped with a 5400 lb. screw type clevis.



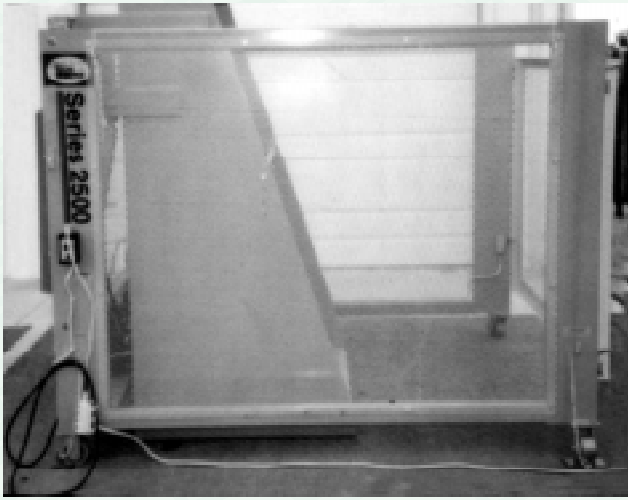
Spring-loaded loop retention pins on the Series SHF-BL offers secure retention of bag loops with quick, positive loop release.

The SHF-BL offers users with limited headroom a low profile design while maintaining excellent loop tension required for proper discharge.



BULK BAG & CONTAINER DISCHARGE

SERIES 2500 BOX/DRUM UNLOADING SYSTEM



- Heavy-duty tubular frame can be engineered in both fixed and portable frame configurations.
- Rugged, self-contained hydraulic systems feature unitized pump and tank systems and are rated for use with most all food grade fluids.
- Full perimeter guarding is safety interlocked for maximum operator safety.
- Container bucket features an open bottom design to assist in keeping container and pallet contamination out of the process stream.
- Unit comes completely wired and equipped with pendant type operator controls. Only single-phase power is required.
- Discharge heights and dump angles can be engineered to fit most all process and product movement requirements.

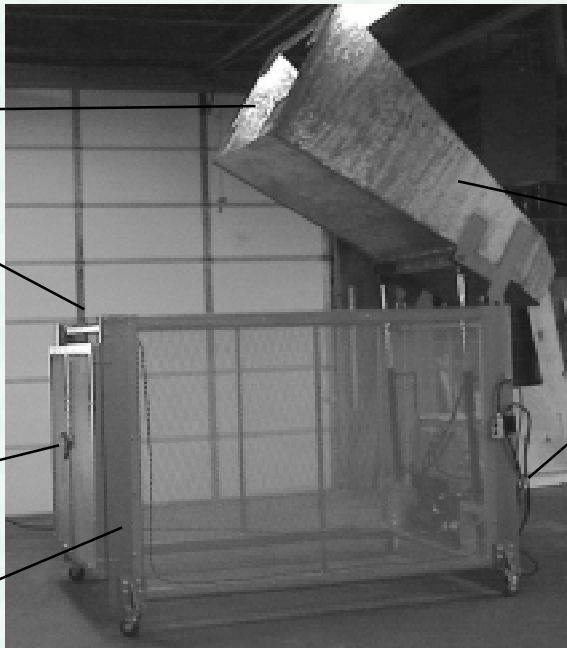
SAFE AND SANITARY DISCHARGE OF BOXES, DRUMS & TOTES

Container buckets have full open bottom design that assists in keeping pallet and external container contamination out of the process stream. Optional hood and spout assemblies can be equipped with valves for product and dust control.

Both stationary and portable frame models come fully equipped with fixed guards and safety interlocked gates.

Gate assemblies can bi-part or swing to either side, depending on available space and container flow requirements.

Heavy-duty tubular frame with continuous welds stands up in harsh environments and helps maintain sanitation.



Containers are held in place via easily adjusted retention bars.

Self-contained power units feature integrated hydraulic pump and tank units with adjustable pressure output and are rated for use with most food grade fluids.

OPTIONAL CONFIGURATIONS:

- Fixed or portable frame
- Food grade hydraulic fluid
- Hooded or spouted discharge with product feed control valves
- Drum discharge adapters
- Heavy-duty pump and cylinder assemblies (for weights over 2500 lbs.)
- Stainless steel product contact parts

Typical Design & Performance Specifications

Maximum Container Weight	2500 lb. (1133 kg.)	Air Requirements	None (less options)
Container Style(s)	Totes, Boxes & Drums	Power Requirements	115V, 1° @ 18 amps
Typical Accuracy	N/A	Typical Dimensions	Dependent on frame style and container size
Typical Fill Speed	Up to 20 containers per hour	Approx. Wt.	2900 lbs. (1315 kg.) in portable frame model