

OPTIONAL T2 COMPONENTS	
Bulk Bag Spout Closure Bars	Twin opposing "V" shaped bars, mounted on pneumatic pistons, are used to untie the bag spout while maintaining dust containment. They are also used to close & retie the spout of a partially emptied bag. It includes a manual hand actuated pneumatic control for extend & retract and a safety interlock to prevent operation of the spout closure bars when the untie chamber door is open.
Dish Cover Assembly	Pneumatically operated cover for the dish. To protect the internals of the Bulk Bag Discharger from contaminants when no bag is present.
Integral Bag Dump Station	The Integral Bag Dump Station, fitted with an oversized welded bar working grid, allows the operator to add small bags of materials by accessing the hopper under the bulk bag unloader. This can be done even with a full bulk bag in place provided that the spout closure bars option has been installed.
Static Monitoring System	Specifically design for use with Type 'C' conductive bags & a resistance range of 500 to 1x10 ⁸ Ohms.
Portable Design	Our mobile bulk bag unloader has additional cross-bracing of the support legs & heavy-duty castors.
DUST SEAL OPTIONS	
Rubber Membrane Dust Seal	The rubber membrane dust seal is located in the support dish.
Peripheral Dust Seal	The peripheral dust seal provides a double seal for single-trip bags that contain dusty or hazardous materials.
LIFTING FRAME & LINER OPTIONS	
Bulk Bag Lifting Frame	The lifting frame is used to safely lift & move most bulk bags to & from the discharging station & is designed for use with either a forklift or our optional electric hoist. The lifting frame is made of all-welded tubular steel. This lifting frame is compact, easily handled & weighs only 120 lb (.45kg). It is rated to 4,400 lb (1,996kg) for forklift use & 2,200 lb (100kg) lifting load for hoist use.
Heavy-duty Bulk Bag Lifting Frame	The lifting frame is used to safely lift & move most bulk bags to & from the discharging station & is designed for use with either a forklift or our optional electric hoist. The lifting frame is made of all-welded tubular steel. It is compact & is easily handled. It is rated to 4,400 lb (1,996kg) lifting load for hoist use.
Bulk Bag Liner Clamp	The bulk bag liner clamp is mounted on the bag lifting frame. The liner clamp prevents the liner from collapsing, falling into the bag & fouling the discharge outlet. This provides a positive method of securing the bag liner while the bag's contents are emptied.
Manual Hand Wheel Bag Liner Tensioner	The manual hand wheel liner tensioner is mounted on the bag lifting frame. The liner clamp prevents the liner from collapsing, falling into the bag & fouling the discharge outlet. The method of tensioning is done via a lockable hand crank. This provides a positive method of securing the bag liner while the bag's contents are emptied.
Pneumatic Rack & Pinion Style Bulk Bag Liner Tensioner	Mounted on the bag lifting frame, the pneumatically actuated liner tensioner retracts approximately 24" (610mm) of liner as the bag is being emptied. For use with loose liners.
Bulk Bag Tensioning Frame	The spring-loaded frame is designed to stretch the bulk bag as it is emptied to promote complete discharge of all solids. The frame will accommodate most bulk bag sizes & is adjustable both in height & spring tension.
BAG MASSAGE OPTIONS	
Bulk Bag Bottom Massage System	Twin pneumatic pistons with large pusher plates are used to massage the bottom of the bulk bag to promote the flow of compacted materials. It includes a manual hand actuated pneumatic control for extend & retract.
Bulk Bag Side Massage System	Twin pneumatic pistons, mounted on the bag tensioning frame, with large pusher plates are used to massage the sides of the bulk bag to promote the flow of compacted materials. It includes a manual hand actuated pneumatic control for extend & retract.
4 Corner Bulk Bag Massage System	Four pneumatic pistons, mounted on the bag dish assembly, with large pusher plates are used to massage the corners of the bulk bag to promote the flow of compacted materials. It includes a manual hand actuated pneumatic control for extend & retract.
Level Activated Massage Control	The level activated massage control provides for automatic activation of the massage system on detection of low level in the hopper & stops upon detection of high level or if the unit times out.
Discharge Chute/Hopper	Located directly below the bulk bag support dish, the discharge chute provides an enclosed environment for accessing the bag spout & as a buffer hopper. Access to the bag spout is through a side door which includes a dust-tight seal, key lock, & viewing window. If fitted with the optional spout closure bars an interlocking limit switch will be provided. The chute is provided with a vent port for connection to a central dust collector (by others). The chute/hopper is available with outlet connections to suit individual requirements.
Rotation Adaptor	This is a 360° connection to downstream equipment.
Internal Polish for Discharge Chute/Hopper	The discharge chute above with #4, 120 grit minimum internal surface & welds ground smooth & crevice free for internal surfaces only.
MATERIAL FLOW AID OPTIONS	
CHUTE/HOPPER VIBRATOR (Electric or Pneumatic)	The electric chute/hopper vibrator is used to aid the flow of materials that can bridge in the hopper. This vibrator is NOT used to aid in the flow of material from the bulk bag - refer to the massage systems options.
Sollmar Air Pad System	Three aeration pads installed through hopper walls to inject & pulse air into the product to prevent bridging, ratholing and compacting of dry bulk materials.
Dish Vibrator	FLO 60 MODELS: An electric or pneumatic dish vibrator vibrates the dish to promote the flow of solids from bulk bags.
Hopper Agitator	The hopper agitator is mounted across the lower section of the discharge chute/hopper. It is used to promote the flow of materials & break up most soft agglomerates before entering the conveyor. Motor starter controls are available.
NEMA 4 Panel with On/Off Switch	A NEMA 4 panel with an ON/OFF switch for a vibrator or an agitator.
LEVEL PROBE OPTIONS	
Hopper Level Probe (NEMA 4)	A NEMA 4 Level Probe can be mounted through the side of the chute/hopper to indicate low and/or high solids level in the hopper. It can be used to start & stop a conveyor.
Hopper Level Probe (Intrinsically Safe)	The Intrinsically Safe Level Probe is mounted through the side of the chute/hopper to indicate low and/or high solids level in the hopper. Barrier by others. For use in XP classified areas. This can be used to start & stop a conveyor.
DUST CONTAINMENT OPTIONS	
Dust Extraction Port	For connection to plant dust extraction system.
Hygienic Bag Spout Connection	The Hygienic Bag Spout Connection is used to provide a sanitary connection between the bag spout & discharge chute/hopper. This will reduce the chance of getting contaminants that may be on the bag bottom from entering the solids stream. It includes an inner shelf in the discharge chute/hopper, center spout connection & quick connect clamp.
Integrated Dust Collector (NEMA 4, TEFC or XP)	This dust collector is integrated into the discharge chute & has 3 polyester membrane filter cartridges (45 ft ² / 1.27m ²), a self-cleaning air pulse jet assembly with control circuit board, motor & fan. Motor starter controls are available.
Free Standing Dust Collector	Our carbon/mild steel free standing dust collector has a hopper and pulse-jet filter blow down. It also has three (3) 30" (762mm) polyester membrane cartridges & can be provided with a collecting hopper with butterfly valves on legs. Motor starter controls are available.
Explosion Proof/Hazardous Options	Please consult your Spiroflow Sales Engineer for details.
Static Monitoring System	Specifically designed for use with Type 'C' conductive bags & a resistance range of 500 to 1x10 ⁸ Ohms.
Glove Box	A glove box is an enclosed area that allows an operator to untie the bag with total containment. A dust port, located at the rear with a dust sock on, can be connected to an extraction system fitted to the operator access door. The dust enclosure is equipped with a pair of heavy-duty long reach gauntlets. These allow the operator to gain access to the inside of the unit while being protected by the gauntlets. If required, an outer secondary safety cover door is fitted over the opening to the glove box to prevent operator access through the gauntlets. This is required if the discharger is to be fitted with spout closure bars or to prevent operator access to moving parts.