



The Slipstick conveyor provides the ultimate benefits with the gentle, sanitary storage of food products. This storage conveyer is simply a horizontal discharge bin with no mechanisms or moving parts in the food zone. This feature offers quick and thorough clean-out for enhanced sanitation and a greatly reduced risk of cross contamination between product runs.

The gentle horizontal motion of the conveyor is uniquely suited for the storage and discharge of the most fragile products.

The trough may be open ended, close-ended with a discharge rate control weir, or extended for accumulation and discharge to multiple locations over long distances between receiving locations.



*Large volumes of product are gently retained with the discharge rate controlled by an adjustable height weir.*

*This open discharge accumulator uses the variable speed of the Slipstick to build product inventory in-line with the product flow.*



Inventory build within the conveyor trough may be accomplished by reducing the speed of conveyor to slow the product travel rate, thus increasing the product bed depth and this build rate may be augmented by the use of stationary product dams positioned along the length of the conveyor to build product inventory behind discharge gates installed along the length of the conveyor. The gentle horizontal motion of the Slipstick allows product to build depth behind a pneumatically lowered product dam without product damaging impact against the dam.

The system maybe monitored by level sensors installed above the product bed that can activate product dam position or to vary the speed of the conveyor for bed depth and discharge rate control.

Discharge rates maybe controlled by adjustable depth product dams, or by varying the speed of the accumulating conveyor controlled by a level sensor in a second conveyor installed perpendicular to the discharge face of the accumulator to regulate the final out put rate. The combination of either of the control mechanisms coupled with the oscillating motion of the accumulating conveyor reduces the tendency of some products to surge discharge (or 'avalanche' discharge).



*Product dams and discharge gates, actuated by downstream level sensors build product inventory and deliver on demand to packaging.*

Feed to the accumulating conveyor may be designed for container charging or for continuous input. The gentle introduction of product to the feed end of the conveyor may employ a simple slope chute, or a retractable spiral.



A very effective approach is the use of a distribution Slipstick conveyor mounted above the length of the accumulator equipped with closely spaced discharge gates that are actuated by level sensors positioned along the length of the accumulating conveyor that are positioned to build product depth with a gentle product-on-product drop in order to build the maximum bed depth for large storage capacity requirements.

In almost all cases feed and discharge arrangements are designed to provide first-in/out product storage.

The use of suitable sized accumulation systems improves overall plant efficiency and output by de-coupling processing operations, which usually require constant input and output from interruptions in packaging for pre-packaging operations.



This accumulator is fit with a feed distributing conveyor mounted above the collecting trough.



Pneumatically controlled discharge regulators prevent product surges at discharge.

To date, Slipstick accumulating conveyors have been provided with storage capacities from as little as 20 cubic feet to over 1000 cubic feet, and capacities of many times this volume are possible with the Slipstick.



Little to no internal components offer quick sanitation and minimize the risk of cross-contamination.

