

PRODUCT CONFIGURATIONS



Q-0894

Bulk Bag and Bag Dump Pneumatic Batching/Blending System



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Bulk Bag and Bag Dump Pneumatic Batching/Blending System

Allows simultaneous weigh batching of major ingredients from bulk bags, manual dumping of minor ingredients, and blending of the batch

Flexicon's in-line pneumatic batching system allows simultaneous weigh batching of major ingredients supplied in bulk bags and manual dumping of pre-weighed minor ingredients, and blending of the material while a subsequent batch is accumulated.

Each of the bulk bag unloaders is mounted on load cells, allowing loss-of-weight batching from either or both bulk bags. A system controller starts and stops each discharger's rotary airlock valve to weigh ingredients, first at high feed rate for rapid filling, then at dribble feed rate, stopping material flow once the accurate batch weight has been discharged. System software allows mid-batch bag changes.

Minor, pre-weighed ingredients can be added at the manual dumping station at any time during a batching cycle.

The dilute-phase, vacuum conveyor line terminates at a filter receiver (not shown) that accumulates the batch before discharging it via slide gate valve into a ribbon blender, allowing concurrent batching and blending of materials, cutting cycle times by half.

The bulk bag unloaders are equipped with FLOW-FLEXER® bag activators that raise and lower opposite bottom edges of the bag at timed intervals, loosening compacted materials and promoting material flow into the discharge spout. As the bag lightens, the stroke of the bag activators increases, raising the bottom of the bag into a steep "V" shape, while top-mounted POP-TOP™ stretching devices elongate the bag, promoting total evacuation of material with no manual intervention.

The dumping station collects dust generated during manual dumping activities by means of a high velocity vacuum fan that draws dust away from the operator onto two cartridge filters. An automatic reverse-pulse filter cleaning system releases short blasts of compressed air inside the filters at timed intervals causing dust build-up on the outer surfaces to fall into the hopper.

System components are available constructed of carbon steel with durable industrial finish, or stainless steel finished to industrial food, dairy or pharmaceutical standards.



Major ingredients sourced from bulk bags are weighed automatically while minor, pre-weighed ingredients are dumped manually.