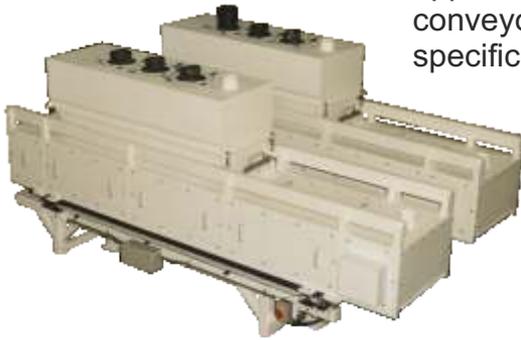


Weighing Systems

Batch Weighing - Powders & Pellets



Batch weighing systems generally comprise of a central vessel or conveyor mounted upon a loadcell weigh frame. One or more feeders are positioned around the weigher perimeter and are used to automatically dose materials in the vessel in accordance with the specified recipe. The physical form of the weigher can vary dependant upon material and the specific process requirements but would generally be either a conical or rectangular hopper. Other applications may however require a conveyor type batch weigher or specific bespoke solution.



Batch weigh hoppers can also be supplied with various discharge assistors such as aeration pads, fluidised cones and flapper jackets to enhance the flow of difficult to handle materials.

Weigher capacities can be designed to suit the customers exact requirements from tens of grams to multiple tons.

Batch Weighing - Liquids & Solids

As with powders, liquidweighing systems are designed around a central weigh hopper with liquids being dispensed via pneumatically operated feed valves. Liquid feeds may be supplied from bulk storage tanks, intermediate bulk containers or standard drums with delivery pumps to suit.

For multi-batch operation systems the weigh hopper can discharge into a intermediate holding vessel situated beneath. From the holding tank the liquid is pumped on demand to the downstream process.

Complete discharge of the oils and line cleaning is achieved utilising low level probes and air operated purging systems.

Both weigh hopper and holding tank are housed in a free standing enclosure which may be fitted with electrical heating and insulation for the handling of more viscous oils.



Solid material batch weighing systems generally comprise of a belt conveyor mounted on a multi-point weigh frame and provide weighing and transfer of batches to the downstream process. Loading can be performed either manually by the operator or via an automated conveyor system.



Continuous Weighing Systems



Continuous weighing systems are utilised for applications where the downstream process requires a continual feed of material rather than a batching process. Such systems generally comprise of a belt conveyor with weighed section. These weighing systems can either be used to simply give a running total of the amount of product passing over the belt or can vary the belt speed to give a constant rate of material to the process line.

Loss-In-Weight Weighing Systems

Loss in weight weighing systems provide automated discharging of materials by weight to the downstream process. General operation will involve the top up of the weigh vessel by mechanical or pneumatic transfer prior to discharging the required weight of material. Refil of the hopper can be controlled by level probe or weight. Loss in weight systems are normally utilised where accuracy requirement is lower and the batch size is similar for all weighments.



Bespoke Weighing Solutions



With years of experience providing weighing system solutions for our customers we can design, supply and implement a bespoke weighing machine to suit your specific plant and materials requirements. From raw materials to finished product weighing and check weighing systems we endeavour to supply the best possible solution with respect to accuracy and longevity.

