Griffith Elder

Batch Weighing System
for Bag Filling

Batch Weigher for Bag Filling

The batch weigher consists of a 3 cubic metre capacity hopper which is designed to be filled from an overhead filling tube, typically from a silo or belt conveyor. A shutter on the filling tube will be operated from the weighing system. At the conical base of the weighing hopper is an emptying shutter, also operated from the weighing system.

Typical mode of operation:

- On the weighing indicator set the amount required in the hopper. This is to ensure that a bag can be filled with some product to spare left in the hopper. This weight is the *pre-fill weight*.
- On the weighing indicator set the amount required in each bag. This is the *delivery weight*.
- When the hopper is empty, zero the weighing indicator.
- Place a bag on a framework under the emptying shutter.
- Press start on the indicator to start the cycle. The weigher will check to see if there is enough product in the hopper to fill the delivery weight. If not, the filling tube shutter will open until the pre-fill weight is detected in the hopper.
- The emptying shutter will open to start the filling of the bag. This will remain open until the set weight has been delivered.
- The last 10% will be delivered at slow speed as the shutter half closes. The system will stop at the end of the cycle.
- A second button on the front panel allows the process to be paused in the middle. In this case all shutters will be closed until the start button is pressed again to continue the cycle.

Features of the system:

- Very simple to operate
- Only one button to press to fill each bag
- Fast accurate filling process
- Electrically operated shutters work from low voltage (12 V DC)
- Two stage valves for trickle final stage for maximum accuracy
- Fully automatic system so that each bag fills with the correct amount
- Self learning fill weight, so that each bag has the correct weight in it. Any discrepancy is automatically corrected for the next bag
- Very robust
- Range of load cells available, depending on the size of the hopper
- Any size of bag can be filled
- Can be supplied without the hopper, as a kit

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