



Belt Weigh Feeders

Wherever the feed rate of solid materials needs to be accurately measured and controlled, weigh feeders provide an accurate and reliable solution. Totalization with batching facilities is also available. Each weigh feeder application requires careful evaluation and engineering to ensure that the conditions, product characteristics, available space restraints and accuracies are met. This results in a weigh feeder that is specially designed to meet the requirements of the specific application. In-line calibration Check facilities may be provided. This allows the weigh feeder calibration to be monitored under normal operating conditions without interrupting the process. Any calibration errors may be automatically reported and corrected. Process Automation's involvement in the various process industries over many decades, has resulted in our developing an extensive knowledge base in material handling, and the associated processes. This knowledge together with our expertise in the field of measurement and control and our wide product range, allows us to offer the right solution to every weigh feeding application. Mass Flow techniques are extensively employed to avoid bridging/rat-holing and to prevent material segregation/classification. The processing electronics will control the final element to ensure that the desired feed rate is accurately maintained.

Weight Sensors

The weight sensors are carefully selected to match the application requirements. Many models of our Belt Weighing Sensors are available, differing in space requirements, achievable accuracy and maintenance requirements.

Speed Sensors

A digital tachometer provides precise speed and belt travel measurement, covering the entire practical range of measurement. This means that only one model of tachometer is required for all applications, thereby reducing spares requirements.

Variable Speed Drives

The feed control may be via either; variable speed DC motor, variable frequency AC motor, hydraulic variable speed drive, or any other appropriate drive system best suited to the application or the end user's preference.

Feed Control Elements

The selection of appropriate feed control element (gate/valve/seal), is based on the nature and flow characteristics of the process material concerned.

Belt Weigh Feeders

Process Automation belt weigh feeders are carefully engineered to marry the requirements of extraction, conveying and weighing. The material is transported and weighed on a belt conveyor system. The Belt Weigh feeder may be provided in Open, Totally Enclosed or Flame (explosion) Proof designs with or without inlet and/or outlet, pre-feeder, calibration/feed bins, automatic calibration facilities, etc. Belting is available in many types and may either be troughed, side-walled or flat to suit the proposed duty. Special designs are available for applications involving materials with a tendency to flush, such as Fly-ash, Cement etc.

Designed for optimum weighing performance.

Weigh feeders may be provided with pre-feeders for those applications requiring it. Special designs for aerated products/products which tend to flush.

Counter-balanced weight sensor designs allow the measurement of low bulk density products such as tobacco, bagasse etc.

Process Automation has built and commissioned many hundreds of these machines to suit almost every mining/industrial application ranging in capacities from 100 kg/h through 1000 t/h.



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