

Intelligent combination

Advanced dosing

WEIGHING TECHNOLOGY

Loss-in-weight feeders scales

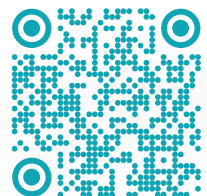
Function

The AViTEQ Loss-in-Weight Feeders are designed to ensure a continuous, gravimetric and high tolerance batch dosing of flowable bulk materials that are not hygroscopic, adhesive or interleaving features. Suitable for many bulk materials including those with the following characteristics:

- fragile (food products)
- abrasive (coarse powder, pellets, granulate)
- difficult to handle (like fibres, glass fibres, pharmaceutical powders)

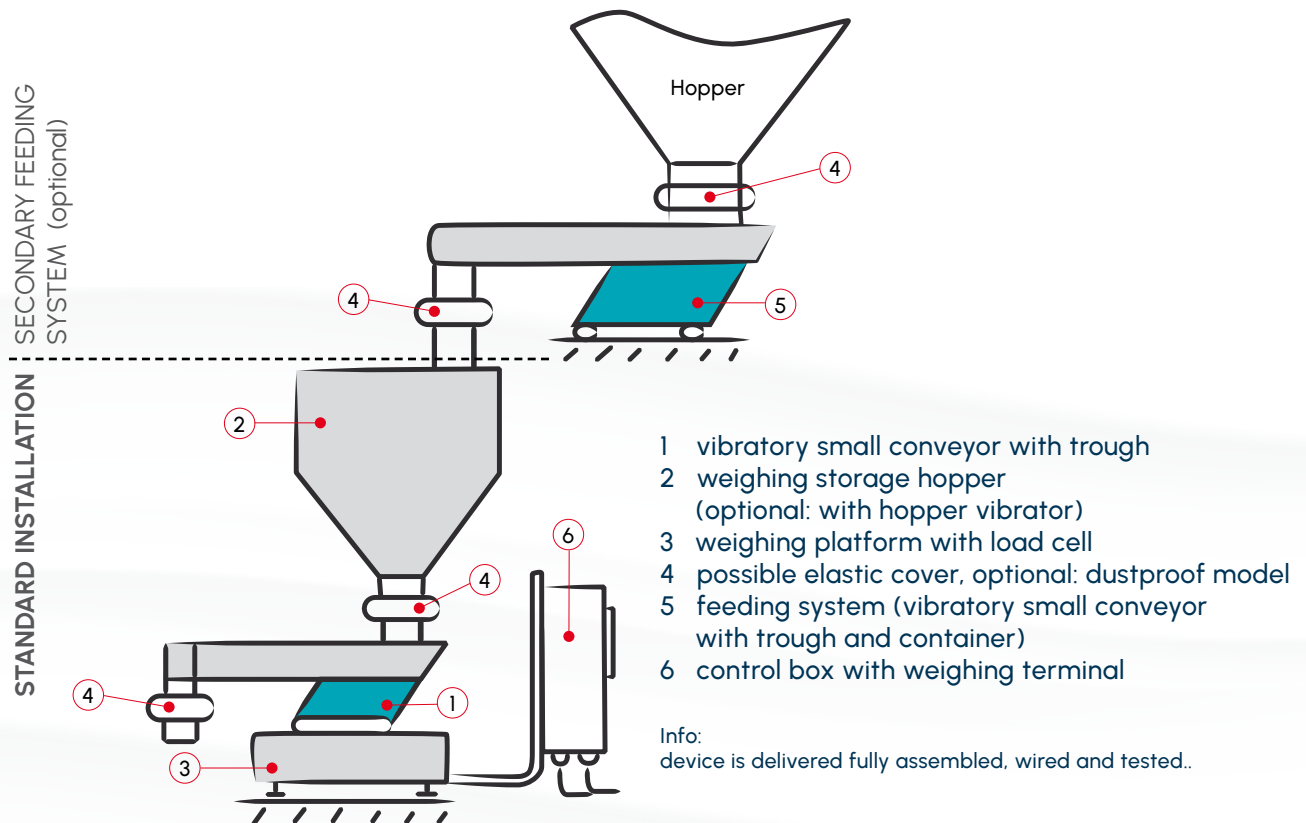
Application advantages and benefits

- less shear and pressure forces
- Troughs have a dead space-free design
- quick and easy cleaning, maintenance-free vibration discharge
- very gentle weighing (volumetric and gravimetric)
- highly precise dosing
- high throughputs



SCAN ME!

Installation



Functionality of the Loss-In-Weight Feeders

The AViTEQ vibration small conveyor (KF Series) discharges from the weighing storage container a predetermined portion of the material at a predetermined conveying capacity. The amount of the bulk material discharged is measured continuously and gravimetrically by a high-resolution load cell. The LIW algorithm then calculates the conveying rate. The weighing terminal processes the values of the load cell with a fixed set point and regulates the conveying capacity of the dosed small conveyor using the AViTEQ Vibtronic control. If the minimum level of the material obtained in the weighing storage container, the secondary feeding conveyor (optional feeding system) will turn on and the weighing storage container is filled again, followed by a settling phase. The operations of a Loss-in-Weight process is divided into the dosing, refilling and settling phase.

Dosing is basically gravimetric. Since the load cell cannot distinguish between dosing and refilling, the dosage works volumetrically in the refilling and settling phase. A positive feature is that bulk density variations, grain size changes or changing flow behavior at the Loss-in-Weight Feeder have little effect on the metering accuracy because the material flow is monitored continuously by weight and regulated.

Technical Data

Up to
1.000
mm trough length

Up to
400
mm trough width

Up to
10.000
kg/h delivery rate