

JesDos vibro

Loss in weight vibration feeder



Advanced weighing and dosing systems for static, dynamic, and continuous weighing.

jesma[®]
weighing solutions



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Loss in weight vibration feeder

For continuous gravimetric feeding and dosing of powders, enzymes larger additives such as caramels and nuts and more.

The functional principle

Using repeated static weighing of the product bin to determine and regulate the mass flow.

The product bin is slowly emptied and the relation between the loss in weight and the speed of the discharge gives the signal to the system, that controls the dosing speed to the required value.

For re-filling of the bin, a pre-set value is entered into the control system. When the pre-set value is reached, the system switches to the historic values for the correct relation between vibration feeder, loss in weight and content in the bin. The historic data are then used for determining the speed of the feeder according to the required dosed amount and content of the bin. When the weigh bin once again is filled the system switches back to normal operation

From the pre-bin the material will enter the weighing bin and it is dosed using the dosing vibrator which is controlled by a frequency converter and the speed is continuously monitored and regulated through the high frequency incremental encoder and the control system.

Reliable accuracy



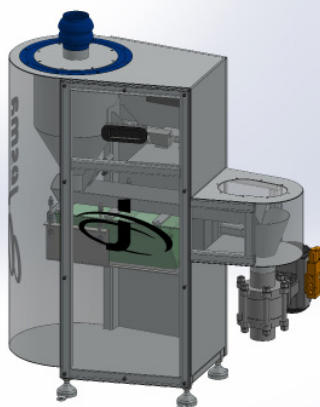
Construction

The system consists of a weighbin suspended in load cells, a discharge and feeding device.

The weigh bin designed to match the capacity and to keep a steady product flow.

From the weigh bin the product is discharged mechanically with a vibration - and the outlet is designed according to the clients specific needs.

Depending on the project and product characteristics the system can be designed as a standard in normal painted steel st. 37.2, Stainless steel AISI304 - other types of material is available upon request.



Control system

The JesDos Vibro is controlled with a special weight controller for Jesma-LIW systems.

Jesma machinery controlled on standard PLC SIEMENS touch HMI, in the HMI display realtime values of flow can be read and sent to the customer's CCS system.

System design and capacity

The unit is designed based on dialogue between Jesma and the client.

Based on careful considerations and product characteristics the development work is done.

Example of the capacity range:

- 2-60 kg/h
- 0,6-50 kg/h
- 5-20 kg/h



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