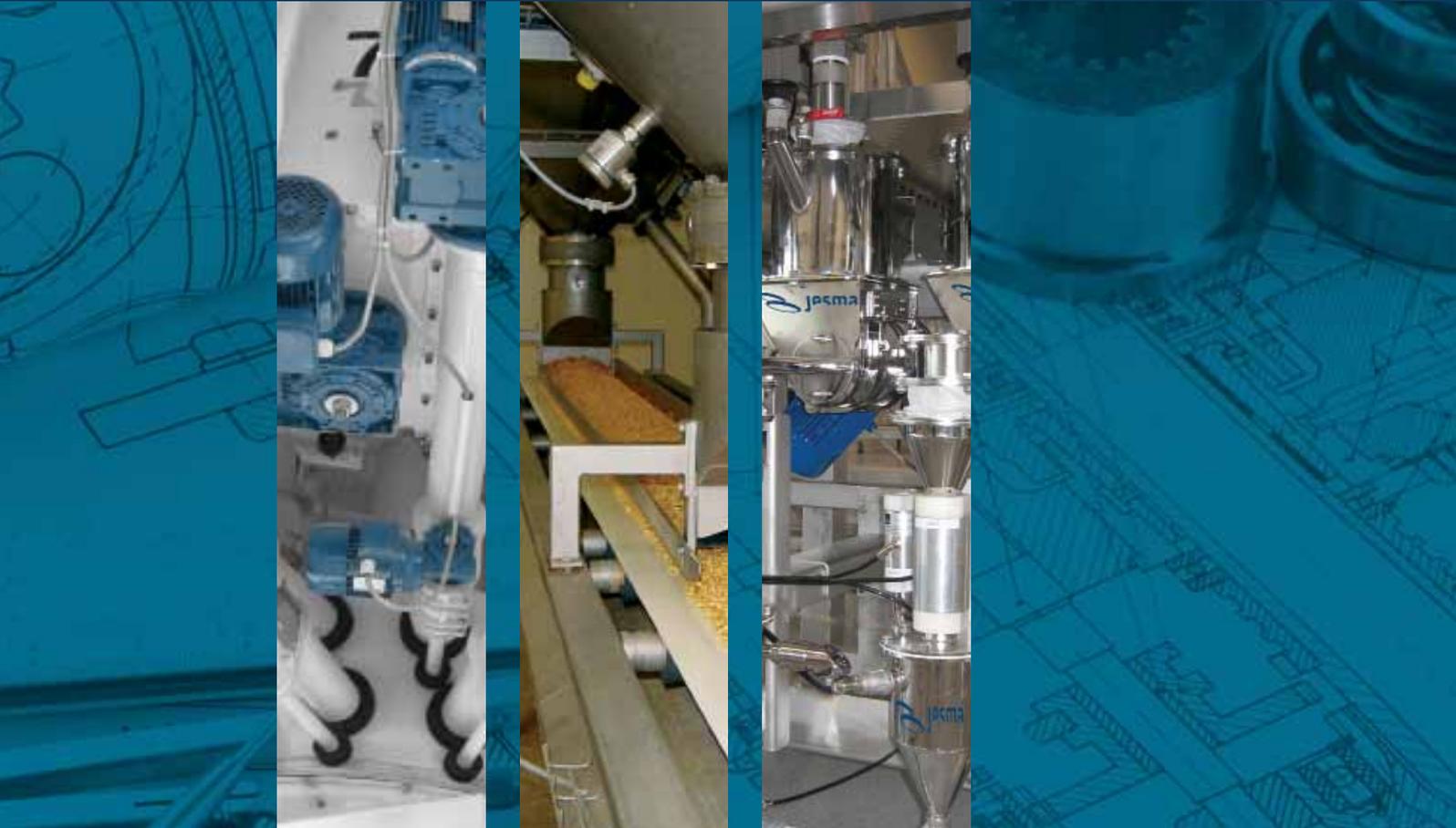


JesDos Vibro

Advanced weighers and weighing systems for static, dynamic and continuous weighing





JesDos Vibro

Loss in weight Vibration feeder

Continuous gravimetric feeding and dosing of larger additives, such as nuts, caramel, granulate. The Jesma loss-in-weight feeder is a fully electronic weighing system, which is specially designed for continuous dosing of product with a high dynamic accuracy incl. the critical stage of re-filling the weighing bin.

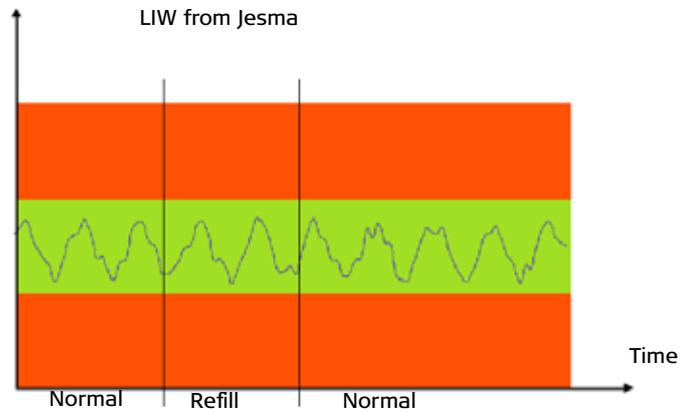
The functional principle for a LIW system is through repeated static weighing of the product bin to determine and regulate the mass flow.

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

To achieve highest possible dynamic accuracy, the discharge system is mounted with a 2-channel incremental encoder with high signal rate which continuously monitors the speed of the discharge and signals the actual speed to the Jesma weigh controller.

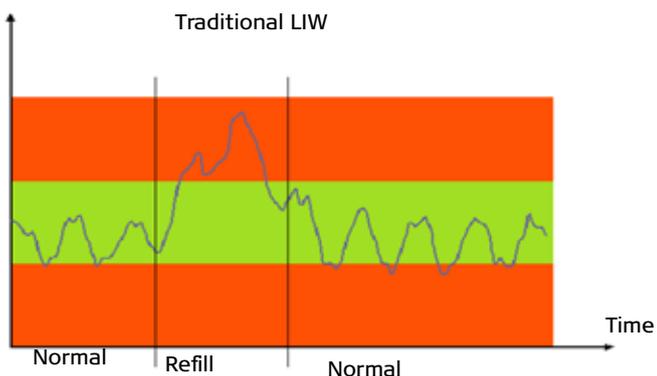
Through careful considerations regarding product characteristics, all Jesma loss in weight feeders are designed for highest possible dynamic accuracy, market leading operational reliability and user friendliness

Accuracy



The unrivalled Jesma principle makes the loss in weight feeder highly accurate, and the optimum control of the relation between discharge speed and actual dosed amount secures a market leading dynamic accuracy and regulation of the mass flow without process disturbing fluctuations.

Accuracy





RELIABLE ACCURACY

Construction

The loss-in-weight system consists of a weigh bin suspended in load cells, a discharge and a feeding device.

The weigh bin is available in many sizes and designs – all of them carefully considered and perfectly designed to keep a steady product flow. From the weigh bin the product is discharged mechanically with a vibrator, and the outlet is designed according to the clients specific needs.

The speed of the discharge is controlled by a frequency converter and the speed is continuously monitored and regulated through the incremental encoder and the control system.

With unknown products or limited experience in the product characteristics, Jesma offer to perform product tests in our test centre in order to achieve the optimum technical solution.

Depending on the project and product characteristics the loss in weight feeders are, completely or partly, available in the following materials: Normal painted steel St.37.2, Stainless steel AISI 304, Stainless steel AISI 316, Hardox

Weighing controller

The weight control unit from Jesma continuously updates the proportion between the required dosing and the actual dosed amount. This results in a fast transient time, which makes the system well-suited for proportional regulation.

During normal operation the intelligent Jesma controller continuously acquires the operational data from the bin content in relation to the discharge speed and the actual dosed amount. The data regarding discharge speed, actual dosed amount and the content of the weighing bin are saved as historic values.

The product bin is slowly emptied and at a pre-set value re-filling of the bin is necessary. The controller switches either automatically or the operator manually switches the system to re-filling mode. In re-filling mode the control system utilize the historic values for the correct relation between discharge speed, required dosed amount and content in the bin.

Based on the acquired historic data the correct discharge speed is determined in relation 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.

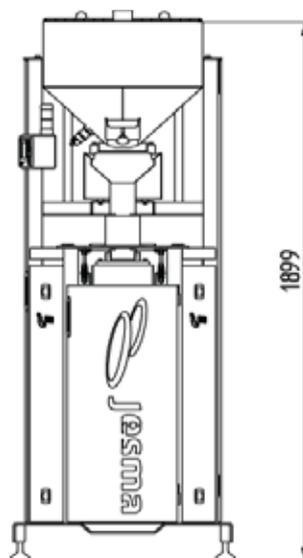
System design and capacities

The Jesma loss-in-weight feeders are designed and manufactured to comply to our customer's individual requirements.

Based on careful considerations regarding the product characteristics and the project specifications,

Jesma only supply project designed equipment.

Example of Capacity range: 2-60 kg/h





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