

Case story - Lantmännen

Reliable accuracy

Precision in every gram, reliability in every process. Jesma Weighing Solutions – where accuracy meets innovation.





Lantmännen - Newly developed technology for the process industry

"... As it is of vital importance for Lantmännen Unibake that the mixing ratio is as indicated and always uniform, it was absolutely necessary for us to change our strategy to attain the quality required."

Operations Manager, Torben Bodin - Lantmännen, Vejle

Earlier on it was hard to find a good and simple solution for how to find the actual flow, knowing the flow and being able to control it; is very important. As it is of vital importance for Lantmännen to have a uniform mixing ratio.

Lantmännen Unibake is one of Europe's leading producers and suppliers of high-quality bread and pastries solutions to both food service and retail operators. Lantmännen Unibake, Denmark needed a way to measure the flour production and at the same time add an additive in relation to the current flow.

Optimization and quality assurance

Jesma offered a JesFlow for the measuring of flour flow and a loss in weight system that could ensure the addition of substances. Where the two weighing systems would function together in a master/slave relation, the material flow being the master and the substance the slave.

The new system secures a constant uniform mixing ratio, before they mixed both volumetrically and gravimetrically as opposed to now where the new technology allows them to mix only gravimetrically. At Lantmännen they have a clear attitude: the process has to be controlled in the best possible way technologically. When the flour is sieved and recirculated through 3-4 different sieves, the material flow may vary from 95-105% of the ideal capacity – and it's exactly this process the new weighing system optimized and quality assures.



In general about the JesFlow flow scale

The Jesma JesFlow scale is designed for the in-line and continuous weighing of bulk materials such as powders and granulates.

With its intelligent weighing system, using the centrifugal forces, the JesFlow can be applied for any vertical process line of dry and/or free flowing products. Due to the compact construction the JesFlow can easily be retrofit into existing process lines where accurate measurement of the process flow is required.

- Weighing accuracies from +/- 0.5% of max. flow.

The JesFlow is supplied in a strong and rigid cabinet, suitable for installation in a closed conveying system.

The weighing chute is mounted in a parallelogram which is freely transmitting the centrifugal forces to the load cell.

The scale is built around a high precision load cell suspended in a parallelogram which isolates the load cell from the mechanical structure.

The load cell is mounted fully separated from the product flow, and the construction secures a long lifetime as the scale is free from moveable parts.

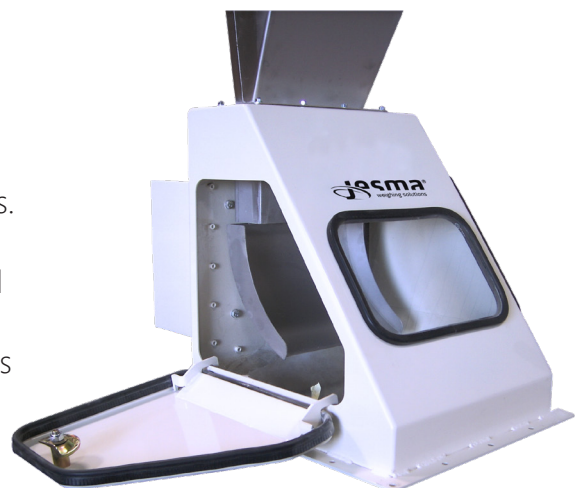
The product flow is entered into the scale through the top inlet where it will cross the distributor plate and the curved weighing chute. The curved weighing chute allows the scale to use the centrifugal forces for weighing very accurately. This weighing solution secures optimum stability and accuracy in the operation of the scale while still keeping the overall dimensions to a minimum.

The product inlet to the scale is supplied including an adjustable distributor plate which allows the material to be equally distributed across the plate for optimum accuracy and linearity. During commissioning the distributor plate is adjusted using the included lockable bolts.

A diverter for test samples after the weigher is recommended to run a known amount over the weigher to allow accurate calibration and control weighing.

The JesFlow is supplied including:

- Overload protection of the load cell
- Access door on each side for easy access to vital parts.
- Front inspection window for visual control.
- Maintenance free weighing construction with load cell suspended out of product flow.
- Easy removable cover for the load cell for quick access for service and maintenance.
- Dust tight construction with thick rubber sealing.
- The flow scale is supplied in painted steel ST37.2





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