



ADVANCED WEIGHERS AND WEIGHING SYSTEMS FOR STATIC, DYNAMIC AND CONTINUOUS WEIGHING



Case story Akzo Nobel Salt

SUPPLIER FOR

- The grain and feed milling industry
- The food industry
- The chemical/technical industry



Akzo Nobel Salt

Approved weighing from production to packing....

Akzo Nobel Salt is the only salt producer in Scandinavia. At Akzo Nobel Salt they wished to measure the internal flow of raw materials from production to packing. Akzo Nobel Salt contacted Jesma, originally with the wish for other weigher types. But due to a close co-operation between Poul Jakobsen, Akzo Nobel Salt and Jesma, it was clear, that both belt feeders and intake-outloading scales were the way to go. We agreed to insert an insertable belt feeder solution, as the salt was transported on a conveyor belt in 4 different places. Simultaneously, we agreed to insert a smaller intake-outloading scale JesHopper-Intake for 2-5 t/h per production line.

Akzo Nobel Salt had a few focus points in the requirements for the weighing equipment. The company have two different lines, respectively for GMP and FFP salt. The later is specially intended for medical use, and therefore requires frequent cleaning. Furthermore, the intended build-in space for the weighers was limited.

Both factory sections at Akzo Nobel Salt were already using Siemens equipment, which also encouraged Jesma to insert the two new weighing systems with Siemens Siwarex. Furthermore, it was necessary to approve the intake-outloading scale according to OIML R-107 (discontinuous weighing). To achieve this approval it is required to use load cells, which comply with the Welmec rules in force at the time. Where Siemens FTA is configured with approved load cells and protected operator panel, it requires high knowledge and understanding for the approval procedures to be successful. For many years, Jesma has supplied equipment for approved weighing – which is also the case at Akzo Nobel Salt.





RELIABLE ACCURACY

In general about Jesma intake-outloading scales

The Jesma programme of intake-out loading scales is specially designed for in-line weighing of bulk materials such as powders and granulates with focus on operational reliability and accuracy.

The JesHopper Intake is a suitable for handling high flow rates, and is available with accuracies better than 0,1%. Based on the high accuracy and optimum reliability the scale is available in trade approved versions according to the MID directive OIML R107 and R61, Class 0.2 and 0.5.

In standard versions the JesHopper Intake is supplied with the following components:

- Pre-bin with pneumatically operated outlet slides and inductive switches
- Pre-bin with flanged connection for feeding system
- Weigh bin with fully electronic weighing system and pneumatically operated outlet slides
- Depending on size the weigh bin is suspended in 2 or 3 load cells with vibration dampers
- Dust covered weigh bin and pre-bin and removable covers, with rubber sealing, to allow easy access for service and maintenance
- Connection branch for aspiration
- Electrical and air connection placed on the inside of the frame
- Incl. solenoid valves and fittings, mounted in a connection box.

In general about Jesma insertable belt scales

The Jesma range of belt scales is among the widest on the market today, and with a clear strategy of supplying only fully tested equipment with market leading reliability, Jesma is able to supply belt scales that accommodate any requirement for a wide range of industries.

With information such as required accuracy, belt speed, belt type, trough angle, belt inclination and product characteristics, supported by the extensive experience and know-how, Jesma not only supply equipment which is trustworthy and reliable today – Our aim is to supply equipment which is trustworthy, accurate and reliable also for future demands.

Type	VIB/EES	VIB/EER
Benefits	Easy to install Maintenance-free bearings Insensitive towards side forces and uneven load Project design to fit existing conveyors	
Approvals	Class 1 and 2 according to MID OIML R50	Class 0.5, 1 and 2 according to MID OIML R50
Accuracy*	± 0.5%	±0.25%
Capacity range	5.0 - 2000 t/h	10 - 2000 t/h
Atex option	Zone 21+22 - Zone 1+2	
Belt width	450-1400 mm	450-2500 mm
Construction	St. 37, AISI 304, or hot galvanized	
Options	Flat belts, V-shaped or Trough-shaped	

*Accuracy is depending on product characteristics and final design.



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