

# Case story

# Euro-Baltic

Reliable accuracy

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





# Euro-Baltic - Approved weighing of fish for human consumption

*"We chose Jesma as our co-operation partner because we value high expertise and know-how within the specific area."*

Director, Anton Van der Plas, Euro-Baltic Rügen, Germany

Euro-Baltic is a fish processing company in Rügen, Germany, they wanted to weigh the herrings directly from the cutter and subsequently invoice the amount weighed. However, as the herrings came directly from the cutter large amounts of water were weighed with the herrings – and this needed to be reduced considerably as they needed to monitor how many kg. went into the factory with a weighing accuracy of +/- 0.5%.

Jesma's suggestion was to implement a JesBelt® A: weigh feeder: to avoid weighing too much water with the fish a draining belt was inserted in the weigher, so that the water would be drained before the actual weighing.

The weigher was connected to a 1.5 m display mounted on the quay where the cutters called in, and the JESMA WC-9604 Weight control computer made it possible via a profibus to gain access to the weighing data.

## Successful approval

The weigher needed to be approved according to existing regulations for purchase and sales as well as to OIML R-50 and PTB (German national metrology institute for scientific and technical services). Euro-Baltic urged Jesma to take the lead in the dialogue with the German metrology institute in Rostock, so the running-in and approval process was controlled by Jesma technicians.

The Jesma technicians took part of the set-up of the belt/ weigh feeder at the factory, and upon implementation the local metrology institute was called to approve. The cooperation between the local metrology center and Jesma was a success the weight was approved in the first testing – thus leaving Euro-Baltic with a fully functional and approved weight!



## In general about the JesBelt® A weigh feeder

The reliable and accurate weigh feeder JesBelt® A is the result of many years of experience. Based on several hundreds of supplied weigh feeders, the JesBelt® A represents the optimum technical solution within weigh feeders.

Through careful design and a thorough selection of parts the JesBelt® A provide excellent reliability and optimum lifetime.

With the unrivalled flexible design the JesBelt® A is suitable for a wide range of process industries where high accuracy and linearity form the basis of an efficient production line,

The JesBelt® A weigh feeder is built around an isolated weigh bridge with 4 pcs load cells and an automatic belt tension. This technical design creates excellent stability, accuracy and linearity in the operation of the weigh feeder - Benefits which are supported by the possibility to approve the JesBelt A according to the EU directives OIML R50, Welmec and MID for purchase and sales.

The JesBelt® A is equipped with a high signal rate incremental encoder (Tacho). The Tacho is mounted to the idle drum of the conveyor, thus continuously monitoring the speed of the belt and alarming the operator by the slightest irregularity in the operation of the weigh feeder.

The conveyor belt is fitted with plough shaped scraper on the inside of the belt. The scraper ensure that any adhesive material is removed from the belt thus not influencing the weighing accuracy.

The JesBelt® A is available in range of standard sizes manufactured from coated steel, stainless steel AISI 304, or in a combination with product wetted parts in stainless steel. Beside the wide standard range, the JesBelt® A is also available as project designed equipment for any requirement.

## A wide range of accessories are available for an individual design of the weigh feeder:

- Flexible rim to eliminate product spill.
- Dust cover including connection with flanged inlet and outlet for dust extraction.
- Dust tray for manual emptying.
- Dust tray with automatic scraper bottom.
- Scrapers for adhesive and sticky products.
- Inlet funnel with damper for regulation of product flow.
- Outlet funnel.
- Belt tracking switches.
- Emergency stop with wire.
- ATEX compliant components.



## General conditions of the JesBelt® A:

- Accuracy from 0,25% (Subject to final design and product characteristics).
- Max. Capacity: 1000 m3/h.
- Ambient temperature for approved versions: -10°C...+40°C.



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