

# Belt Weighing at Jansen Recycling

In the Netherlands, Jansen Recycling (of A. Jansen BV) specializes in infrastructure demolition and remediation, debris recycling and a variety of concrete production. With multiple sites and installations using belt scales, maintenance and data collection are critical to success. Jansen Recycling turned to ACB-Transportbanden and Rice Lake Weighing Systems for their system maintenance and renovation.

Jansen Recycling has two installations in Helmond for sorting construction material and debris. The first is an extractive installation to sieve soil contaminated by oil or chemicals so it can be sorted into different types. Sand extracted in this process is immediately processed in the concrete mortar plant on the same site. The second installation is an Aquamotor used to clean contaminated rubble, concrete and glass before the material goes back into the recycling circuit.

When Jansen Recycling wanted to update their material dosing systems, they worked with Rice Lake Weighing Systems' team to understand their options and select the best system for their needs.



## Conveyor Belts and Scales

Jansen Recycling uses multiple conveyor belts at their Helmond sites, and site manager John van Hout trusts ACB-Transportbanden for maintenance of these conveyors. ACB is located in Horst aan de Maas and they sell, install and service a variety of conveyor belt components in the Netherlands.

Many of the conveyor belts are also paired with belt scales, and these systems must operate reliably in rough conditions. John van Hout wasn't satisfied with the maintenance performed by their previous belt scale supplier and, in 2017, he asked ACB if they could perform the scale and conveyor maintenance.

Belt scale maintenance is a specialized service area so ACB approached Rice Lake Weighing Systems about performing this maintenance. ACB had worked with the experts at Rice Lake's Heteren location (formerly Master Engineering) for 10 years already, making the partnership a clear choice.

## Belt Scale Maintenance and Renovation

Rice Lake's service department in Heteren has many years of experience working with belt scales across Europe and they had no problem providing maintenance for the non-Rice Lake belt scales that were installed at Jansen Recycling. After a few maintenance visits, however, Rice Lake's experts determined that in many cases incorrect weighing frames were being used for the conveyor belt speeds. There were also numerous mechanical issues negatively impacting the accuracy of belt scales.

After speaking with van Hout, ACB and Rice Lake worked together to create a plan for conveyor belt and scale renovation. Jansen Recycling also wanted access to data from the belt scales on the network,

which meant expanding the plan with new electronics and a belt weigher registration software package.

## Belt Weigher Registration (BWR) Software

Jansen Recycling wanted more insight into their production data, including tonnage, flow, operating hours and down-time. Rice Lake integrated data loggers into each of the belt scale electronics to collect and record this information.

BWR software was created by ACB to integrate with Rice Lake equipment. The software was installed on existing computers where a web client is also hosted. The software application runs 24/7 and checks for new data every minute, processing information to be saved in Jansen Recycling's database, including:

Machine number and name

Belt weigher number and name

Date/time

Flow

Tonnage

Material specifications

Shift data

Production or standstill

## Day-to-Day Practice

Jansen Recycling has now been working with the belt weighers for a few years since the renovation, and they are very satisfied.

John van Hout said, "We now know for sure what to do in terms of input for the installations and per output flows. The belt weighers are accurate enough and the BWR software package provides really good insights into what's happening at the installations. Our management can also see and analyze what is happening at the plant from their offices."

## The Standard in Recycling

### Problem:

Multiple conveyor belts paired with belt scales required maintenance at Jansen Recycling's sites in the Netherlands. They were not satisfied with their previous belt scale supplier and needed to find reliable technicians, equipment and service.

### Solution:

Jansen Recycling turned to ACB-Transportbanden, who worked with experts at Rice Lake's Heteren location. ACB and Rice Lake determined that, in many cases, incorrect weigh frames were being used for the conveyor belt speeds. There were also mechanical issues negatively affecting belt scale accuracy.

ACB and Rice Lake worked together to create a plan for conveyor belt and scale renovation. To accommodate Jansen's request for networked scales, new electronics and a belt weigher registration software package were installed. Rice Lake integrated data loggers into each of the belt scale electronics to collect and record information.

Master Belt Scales

Integrated Data Loggers

Belt Weigher Registration Software



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