



- a strong solution for the environment



CASE: ReTec Miljø ApS Denmark, January 2017



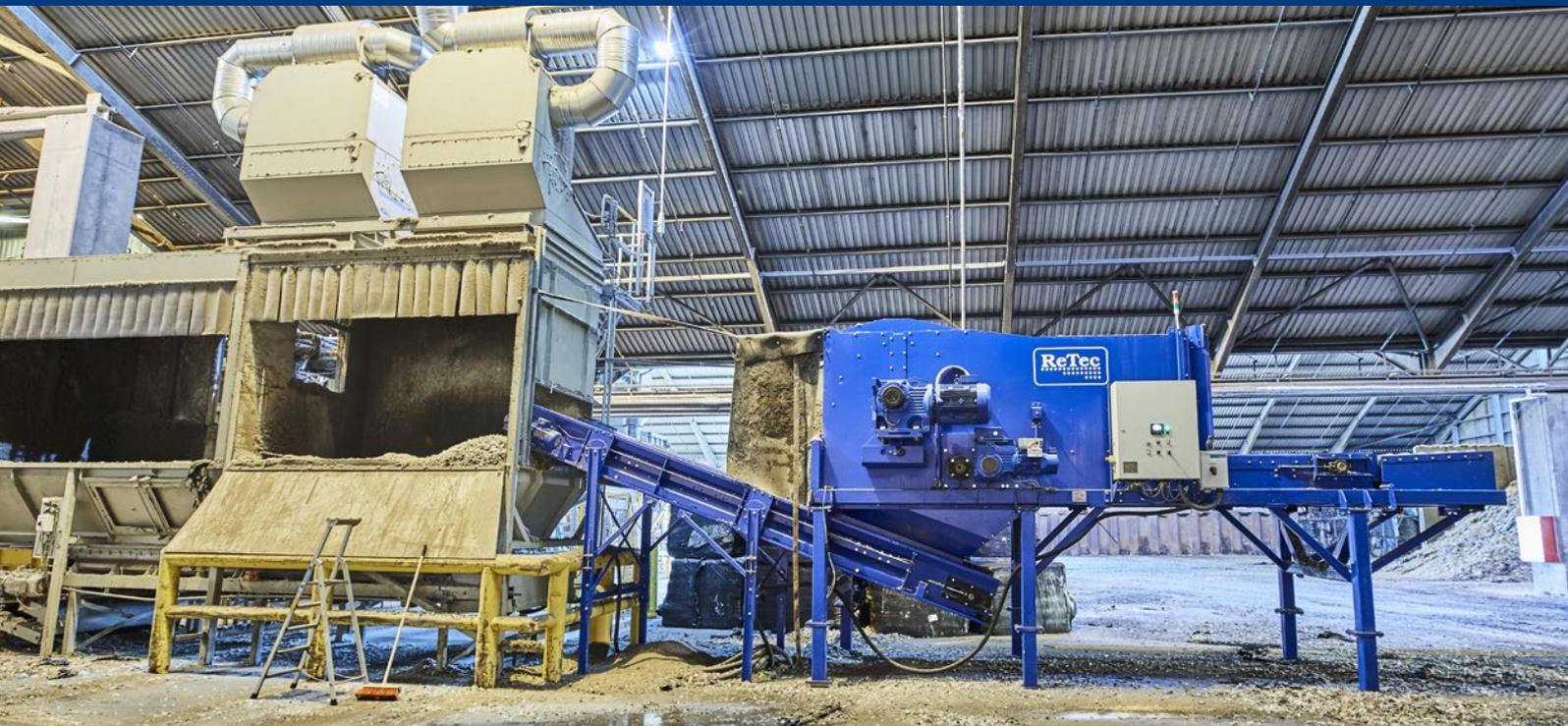
Aalborg Portland achieves higher efficiency and operational reliability by ReTec Bale-opener

The plant of the Danish Cement producer Aalborg Portland in Aalborg, Denmark, has been using Solid Recovered Fuel for many years. The SRF is burnt in the pre-calciner on the grey cement kiln. Substitution rates have grown over the years, and are currently at approx. 45%. 65.000 tons/year of the Alternative Fuel is baled and wrapped as SRF. As Aalborg Portland is conveniently situated on dockside, almost all the baled SRF finds its way to Aalborg via sea.

Until now the opening of the SRF bales and pre-processing was facing some challenges. The inherent method was using a “robotic” machine that would cut up the bale and remove the wrapping by a robotic arm. But

for various reasons, this solution was not optimal, and often the contractor ended up opening the bales one by one with a front-loader.

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In the fall of 2016, ReTec was brought into the picture and did a demonstration of the ReTec bale-opener. The result was immediate and showed significant improvements:

1. By the function of the bale-opener, the bales are ripped open by the bale-opener ripperdrum. It is a simple and reliable mechanical function.
2. The SRF comes out very loose and in a consistent, continuous flow. This gives huge improvements downstream, for example in the critical screening.
3. Capacity has almost doubled to 40 tph (the maximum of the fuel plant, the bale-opener can deliver higher capacities)
4. No break downs or any operational issues. The contractor is feeding the bales onto the in-feed conveyor of the bale-opener, and that's it.
5. The bale-opener is universal regarding size and shape of the bales.
6. Good quality fuel and reliable operation, makes a good ROI, and satisfied the production staff on the plant!

About Aalborg Portland

Founded in 1889, Aalborg Portland is one of the largest producers of grey cement in the Nordic region and the world's leading manufacturer of white cement. The company is at the forefront of energy-efficient production of high-quality cement at the plant in Aalborg. In addition to the factory in Aalborg, Aalborg Portland includes four sales subsidiaries in Iceland, Poland, France and Russia. Aalborg Portland is part of Aalborg Portland Holding, which is the parent company of a number of cement and concrete companies in i.a. the Nordic countries, USA, Turkey, Egypt, Malaysia and China. Additionally, the Group has activities within extraction and sales of aggregates (granite and gravel) and recycling of waste products.



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ReTec develops, constructs and manufactures special machines for the waste and recycling industry. We offer practical solutions to our customer's needs, helping them increase profitability in their business.