

# Case story

**600 m<sup>3</sup> Silo for residual product  
delivered to StoraEnso - Sweden**



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# StoraEnso Hylte Mill Delivery of a 600m<sup>3</sup> silo for residual product.

## Introduction:

Hylte Mill is a part of the world-wide group StoraEnso. At Hylte Mill approx. 800,000 tonnes of paper is produced per year. The paper is primarily used for manufacturing of newspapers.

## Purpose:

Delivery of three bag filters, one 80m<sup>3</sup> silo for lime, one complete transport system for residual product and one 600m<sup>3</sup> silo for storage of the residual product. The following only describes the residual product silo.

## Why:

Due to the installation of a new oven with a bigger capacity and a change of the fuel, the capacity of the existing residual product silo was no longer sufficient. Further the existing ash moistening was not working satisfactorily, among other things with too high maintenance costs.



## Solution:

Construction of a 600m<sup>3</sup> silo which is filled by means of 5 pcs. pneumatic conveying stations, one from each bag filter and two from the existing el-filter. The silo is discharged by means of a "live bottom", consisting of 4 pcs. screws, into two continuous mixers, where the ash is moistened with 10-12% water. The mixing chamber of the mixer is designed especially to this type of ash.



Five inlet pipes in the top of the silo.



Mixer for moistening of the ash.



The soil-moist ash is by means of two conveyor belts discharged into two containers, and is then ready for collection.

The silo is filled and discharged continuously, and the capacity of 600m<sup>3</sup> corresponds to 2 days' production of ash.

The total discharging capacity is more than 60m<sup>3</sup> ash per hour.



### **Carrying out:**

The silo was welded on site. First the bottom cone was manufactured and lifted into the rack, then the silo housing was welded together, section by section. The silo housing was mounted with various bearings, pipes and at last insulated. The fully mounted silo housing was then top of the lifted to the bottom cone.



### **Conclusion:**

The mounting and commissioning followed the schedule. Both the customer and the drivers are very satisfied with the silo. Especially the drivers, who are the daily users, collecting the ash containers, express big satisfaction with the system, which is working considerably better than the old ash moistening.