

PRESS RELEASE BOLLEGRAAF RECYCLING MACHINERY

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Sorting system for de-inking paper

Reparco Nijmegen and Reparco Renkum, subsidiaries of Norskeskog, bought sorting installations from Bollegraaf Recycling Machinery this spring.

The sorting installations have now been put into operation already. Both sorting systems were designed to automatically sort de-inking paper from waste paper collected from domestic households.

The installation in Renkum processes 40 tonnes of domestic waste paper an hour and the installation in Nijmegen can handle 30 tonnes an hour. Both installations incorporate the most modern technologies, such as bunkers with a drum feeder (Bollegraaf Drumfeeder), star screen technology (of sister organization Lubo Systems), Bollegraaf Paper Spikes that pick small bits of carton out of the sorted material, and an optical type of sorting called Redwave that optically removes the last contamination from the paper flow.

Bollegraaf Recycling Machinery worked very closely with Norskeskog staff to develop the special sorting installation. Reparco's sorting installations are the most automated systems currently available on the market to sort de-inking paper from collected domestic waste paper.

How does the sorting installation work?

A mechanical shovel puts the collected waste paper into a bunker (drum). This bunker has a drumfeeder at its end. This drumfeeder ensures a constant supply of waste paper to the sorting installation. Via a conveyor belt, the waste paper goes to a cardboard screen. This cardboard screen separates large pieces of cardboard from the waste paper. The paper flow that is left goes to a sorting drum via a fine screen. This fine screen takes the smallest particles from the waste paper. After that, the paper flow goes to two or three Paper Spikes. The Paper Spike is a machine that takes small pieces of cardboard out of the paper. Cardboard is stuck on spikes that are mounted on V belts which then take the small cardboard pieces to a belt. After that, the small pieces of cardboard are joined by the large pieces that come from the cardboard screen.

The Paper Spike produces a flow of de-inking paper with a contamination of about 4-5 percent. Via an optical sorting process with Redwave, which is 2.8 meters wide, half of this contamination is blown from the paper flow. The sorted de-inking paper is then automatically loaded into a filling station comprising four trailers and the paper is automatically spread around the trailers so it becomes possible for each trailer to contain 24 tonnes of de-inking paper.

A Bollegraaf HBC-110 baler then turns the sorted cardboard into bales of cardboard weighing about 800-900 kilograms. Bollegraaf Recycling Machinery has made a very successful contribution to above system.

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