



ALTPAPIER SORTIERUNG DACHAU GmbH – GERMANY

Sensor based optical sorting for paper de-inking



CUSTOMER

ASD – Altpapier Sortierung Dachau GmbH – are specialists in recycling of waste paper. The company produces high quality paper grades for their industry partners.

REQUIREMENTS

The requirements are maximised gain output with the highest purities of 97% of sorted paper grades from waste paper with less than 8% de-inking loss overall. The production line with new REDWAVE NIR/C reaches a throughput of 25 tonnes per hour.

SOLUTION

In 2010, ASD Altpapier Sortierung Dachau GmbH integrated five powerful REDWAVE Near-Infrared paper sorters with a combined colour sensor.

MATERIALS

In the paper recycling industry, sensor based sorting technology is playing an important role in recovering valuable office paper, newspapers, magazines and other materials to be de-inked.

Low-grade fibre materials such as brown and grey cardboard, corrugated cardboard, folded boxes, printed cardboards, synthetic paper and plastic laminated paper need to be separated.

Additionally, non-conforming material such as plastic, textiles, and metals are also detected and separated via Near-Infrared REDWAVE sorters.



SORTING PROCESS

The infeed material arrives loose and is loaded into a dosing drum for continuous supply to the sorting system. First the Old Corrugate Cardboard (OCC) screen removes cardboard larger than A3. From there onwards, the stream is divided into two lines, each containing one fine screen for separation of material below 100mm, and two REDWAVE 2800 NIR/C machines.

The REDWAVE NIR/C is specially developed for paper sorting and is combined with a colour sorter. The rejects from these REDWAVE units are then sent to a fifth REDWAVE sorter for positive recovery of de-inking carry-over. At the end of each line, a manual confirmation of quality is carried out before storing the material in the dispatch hall.

Cardboard and fine materials are then baled and stored before delivery to customers.



TESTIMONIAL

Christian Ascherl-Landauer, Chief Executive Officer of ASD Altpapier Sortierung Dachau: *"The excellent service of BT-Wolfgang Binder GmbH allows us to operate the sorting plant on a stable level. The high quality requirements are undergoing continuous enhancements and REDWAVE takes on this challenge."*