

ROWE Nürnberg increases sorting results with intelligent system control

Highest efficiency and quality in paper sorting is realized at the ROWE Company thanks to a new sorting technology and the MAX-POS process optimizing system

In order to meet the constantly increasing requirements for purity and quota in the deinking of recovered paper, the existing paper sorting plant in Duisburger Strasse has been completely renewed.

The sorting plant, which was designed and installed by Entsorgungstechnik Bavaria GmbH, is able to process on two sorting lines about 25 tonnes of waste paper according to type.

In order to achieve the highest possible degree of automation and optimum plant efficiency, the sorting plant has been equipped with the MAX POS control concept from Entsorgungstechnik Bavaria GmbH for process optimization.

The control technology continuously accesses the material data online, e.g. from the near-infrared machines.

In addition, material data, such as the degree of moisture, is analyzed directly in the input area and evaluated online. The material flow is thus automatically and continuously monitored and controlled in real-time.

The ROWE company thus achieves a consistently high output quality - even with variations of the input material.

Using an especially developed storage bunker makes it possible to compensate the usual variations of the input material (i.e. the amount of cardboard). The downstream sorting units can therefore operate at any time with the highest efficiency.

By using the intermediate bunker and thanks to process optimization, the efficiency of the sorting plant could be increased significantly by more than 10 %.

The installation is equipped with the proven BHS_t OCC- and Fine Screens for the automatic sorting of cardboard and small impurities. Due to their compact build size and high performances these screening machines are also suitable for tight installation conditions. Thanks to high runtimes and reliability these screening units with their triangle rubber screen discs are highly efficient resulting in low wear costs even in multiple-shift operation. Sorting quality can be adapted individually by simply adjusting the speed.

In order to sort out reliably medium-size cardboard boxes from the waste paper fraction, one PaperSpike was used per line. The advantage of this mechanical separation stage is that light, white and printed cardboard and packaging can also be reliably detected due to their rigidity.

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A high final quality is additionally ensured by two optical sorters from Redwave. Thanks to the setting option of various sorting programs, as for example a special program for wet material, as well as the “learning capability” of the software, these sorting machines are a must for modern sorting plants.

A third optical sorter from Redwave creates high efficiency by re-sorting the discharged fractions of impurities. This machine has kind of a guardian function, as it makes sure that deinking, which has been sorted out from the optical sorters, is led back to the paper lifecycle by positive re-sorting.

The deinking quota can thereby be increased by several percent.



Paper sorting at the highest level at ROWE GmbH, Nürnberg

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