



Recycling

Optical Sorting is the Core of the Cycle



Thermoplastkreislauf GmbH
(Austria)
Product: VARISORT COMPACT

Thermoplastkreislauf GmbH is headquartered in the Lower Austrian town of Traiskirchen near Vienna

As a specialist in the field of thermoplast refining the company in its „Production“ business unit produces individual plastic granulates by means of sophisticated compounding processes.

The recycling of high-quality thermoplasts is the company’s second business unit. The objective of this business unit is to process production waste into high-quality regrinds or regranulates.

All the products – new material, regrind, regranulate, and recyclate – undergo stringent quality inspection, and it is also of great importance here that products are of pure colour and correct form, and metal-free.

Sesotec sorting station with integrated multi-sensor sorting system

In its recycling business unit Thermoplastkreislauf GmbH installed a sorting station designed by Sesotec. Sesotec supplied a customised station with suitable steel construction, conveyor

technology, and multi-sensor sorting system. The scope of delivery also included feeding hoppers, conveyor belts, steel construction for screens and working platform, and a suitable SIEMENS control unit. For easy cleaning of the conveyor belts in case of material changes, mobile folding conveyors were integrated in the sorting station.



Das VARISORT COMPACT multi-sensor sorting system provides high-purity secondary materials that can be profitably returned into the recyclable materials cycle.

The core component of the sorting station is the VARISORT COMPACT multi-sensor sorting system that is equipped with sensors for colour and shape detection and with an all-metal sensor. The sorting station furthermore includes various screens that remove oversized and undersized particles before the material is transferred into the sorting system. The VARISORT COMPACT multi-sensor sorting system separates unwanted colours, shapes, and metals from the plastic flow and thus guarantees a constant high quality of the plastic recyclate. The unmixed products in additional steps are processed into granulate or are returned to the customer for further processing.

Says Christian Wind, managing director of Thermoplastkreislauf GmbH: „The project was perfectly planned and smoothly executed by Sesotec. We greatly benefit from the experience and flexibility of Sesotec in the field of sorting technology, because we can now guarantee that our products meet highest quality demands.“

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Sesotec - an overview

The Sesotec group is one of the leading manufacturers of machines and systems for contaminant detection and material sorting. Product sales primarily focus on the food, plastics, and recycling industries.



Metal detection systems



X-ray inspection systems



Sorting systems



Magnet systems