



UNISORT BlackEye

> A world first in the recognition and sorting of black plastics

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A world first in the cost-effective optical sorting of black plastics - solutions from STEINERT

Optical sorting machines are a mainstream tool in the field of plastics recycling, however until now they have been unable to yield the often problematic black/dark plastic materials. Alternative processes for plastics recycling are also confronted with similar barriers. The UNISORT BlackEye closes the loop on this issue and now offers the possibility to efficiently recover recyclates from fractions with a high proportion of dark plastics – making the pure separation of black components a reality.



Mixed PP/PE fraction

Flower pots aren't the only common household item made from black plastics. The same material is frequently used in the manufacturing of technical products. This is often lost in the flow of material recycling, where numerous compounds prevent an efficient separation by density and conductivity. The UNISORT BlackEye sorts black plastics such as PE, PP, PVC and styrenes and now recovers recyclates from materials that were previously sent for processes like thermal recovery.



Mixed PP/PS — shredded clothes hangers

STEINERT is a pioneer in the application of hyperspectral imaging (HSI) technology. This has led to the creation of opportunities for new industry applications. This proven solution can now be used to approach the challenges that are presented in sorting and recognising dark objects according to type.



The UNISORT BlackEye is ideal for use whenever bulk materials such as dark grit or black plastic flakes are needed in a highly pure form.



UNISORT BlackEye in the sorting process



PE



PE, PS, PP mixture



PE, PS, PP mixture

Due to a high proportion of mineral fillers, lightweight polymers can also end up in the sinking fraction and are no longer viable for downstream recycling process. This innovative technology enables these polymers to be reliably recovered from the sinking fraction and makes them once again available for a high-value recycling process.



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