

## Fact Sheet

# UniSort BlackEye



### + METAL SORTING

- + Sorting of dark plastics from auto shredder residues by type, such as PE, PP, ABS/ABS-PS, PET, PVC
- + Differentiation of dark polyolefines into PE and PP is also possible

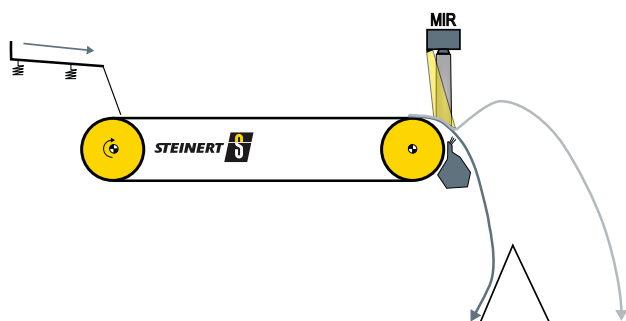
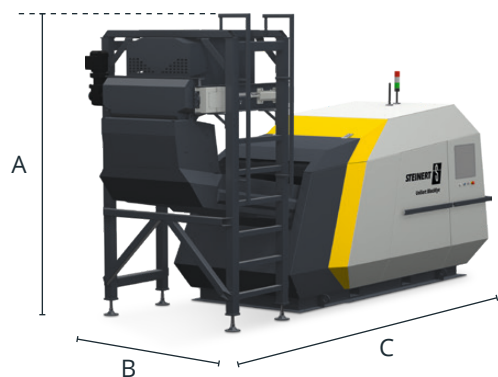
### + WASTE SORTING

- + Recognises, sorts and differentiates black plastics by types such as
  - Polyethylene (PE)
  - Polypropylen (PP)
  - Acrylonitrile-butadiene-styrene copolymers (ABS/ABS-PS)
  - Polyethylene terephthalate (PET) and
  - Polyvinyl chloride (PVC)

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## + TECHNOLOGIE

### UniSort BlackEye

The UniSort BlackEye uses a sensor for the mid-infrared (MIR) range. The material is fed via a dosing device and arrives on the integrated conveyor belt. The material to be sorted is accelerated by a high-speed belt and pressed onto the belt by the optional Active Object Control (AOC) system – and held in a stable position even after leaving the belt.

Whilst the sortable material flows through the detection area, the corresponding sensor detects the type and the position in-flight. The controller then activates the correct nozzles at precisely the right time and position. The objects are deflected downwards in front of the separation splitter by compressed air pulses, while the material that has not been shot follows the drop and lands behind the separating splitter.

UniSort BlackEye		B750F
<b>General</b>		
Working width (mm)		750
Dimensions approx. (mm)	A	2,530
	B	1,500
	C	4,520
Weight incl. nozzle bar (kg)		1,450
<b>Environmental specifications</b>		
Permitted ambient temp. depending on version (°C)		-5 to +40
Installation site		Under roof/indoor
<b>Conformities</b>		
Given conformities		EN (UL-CSA)
<b>Electrical specifications</b>		
Machine power consumption (kVA)		9
Machine protection class		IP 54 (not certified)
<b>Pneumatic specifications</b>		
Compressed air quality		ISO 8573-1: class 3.4.4
Operating pressure (bar)		5–6
Pneumatic connection (inch)		1
<b>Options + variants</b>		
Example accessories		Platform

Technical alterations reserved. For more details see the operating instruction of the sorting system.