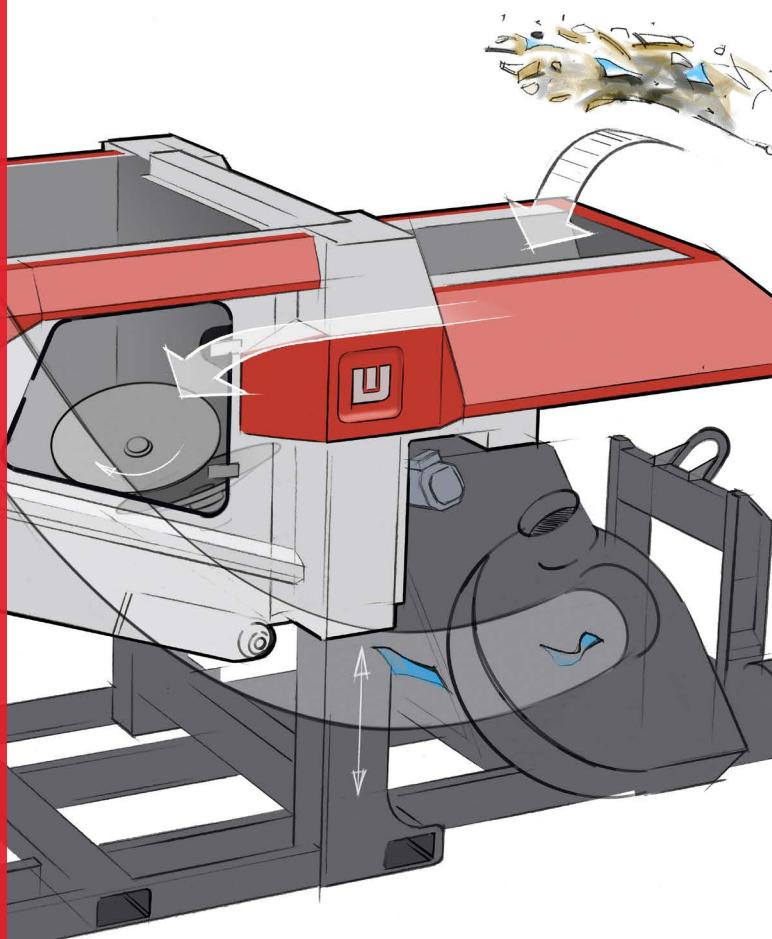


# AirLift® move

WINDSIFTING | PRODUCT PRESENTATION



## AirLift® move



Essential  
building block for  
optimal purity  
of your material

### Impurity removal - flexible and fast

New requirements need new innovations. The quality of recycled materials must constantly improve, because the further amendment of the waste framework directive additionally increases the demands on the sorting process. Our mobile overbelt extraction windsifter is designed to remove contaminants from material streams with similar specific densities. Thanks to its mobility, it can be optimally integrated into existing plants quickly and efficiently.

### About us

Westeria is a German company from Westphalia with over 60 years of experience producing innovative machinery. Since 1956, our product portfolio has largely grown to provide high-quality machines, technical expertise and excellent service to our clients. We are constantly developing new recycling machines and conveyor systems for what is perhaps the biggest challenge of the present day: make the circular economy a valuable and profitable reality all over the world.

# Components

The system consists of the following core components:

## AirLift

The central element of this system is a separation module that extracts ultralight materials by windsifting.

## SpeedCon

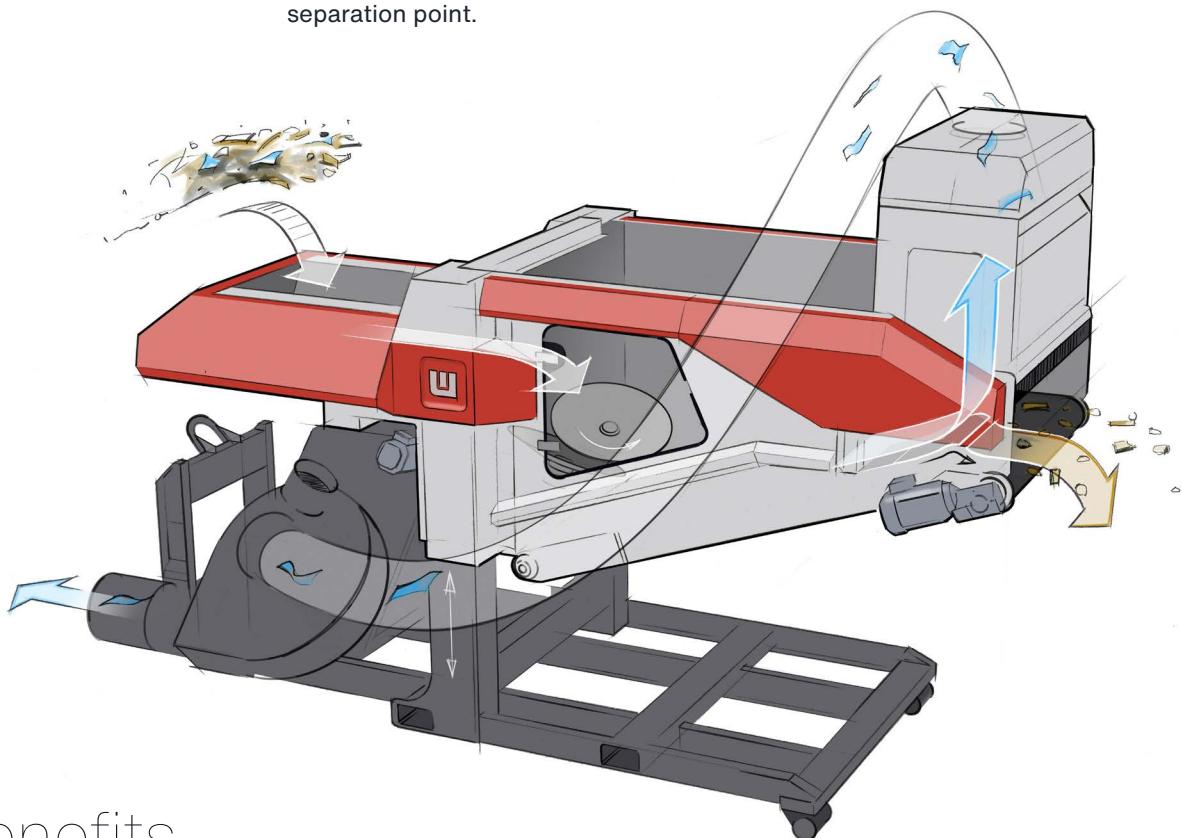
The high-speed bended conveyor transports the material over a bend with 2,1 m/s to create a brief moment of weightlessness at the separation point.

## DiscSpreader

The spreader optimally distributes the material over the full width of the high-speed bended conveyor.

## Carriage

For easy transport of the AirLift move with hook lift and forklift shoes.



# Benefits

## Higher efficiency

than conventional over-belt extraction systems.

## Mobile technology

means significantly lower investment than stationary system.

## High purity

up to 99% thanks to precise adjustability of the air flows.

## Max. Throughput

up to 120 m<sup>3</sup>/h (depending on material)

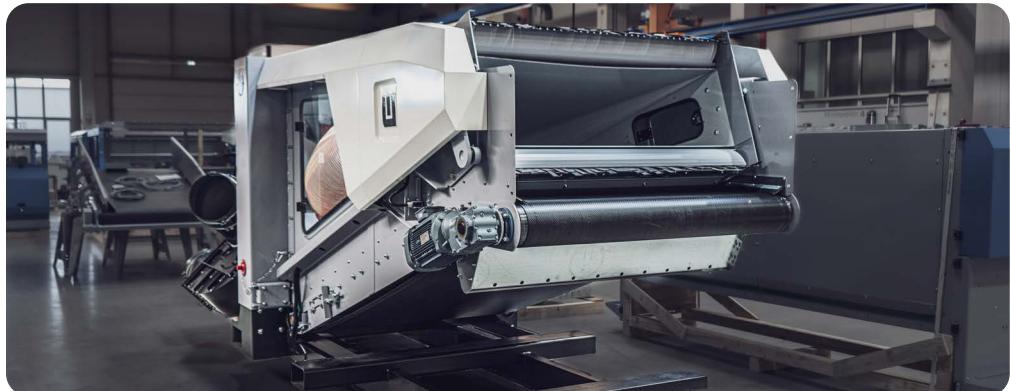
**The AirLift move combines optimum separation precision with all the advantages of mobile technology.**

# Examples of applications



## Technology Center

We test the separation performance of your materials in our Technology Center and give you the certainty that you will achieve outstanding results in your application.



### Organic waste

- Removal of impurities from organic waste or biomass in various grain spectra
- Meets requirements of stricter legislation
  - Limit values of foreign substances for organic waste and fermentation products > 1 mm (0.1 mass % in dry matter for plastically deformable plastics)

### Scrap

- Deposition of ultralight materials

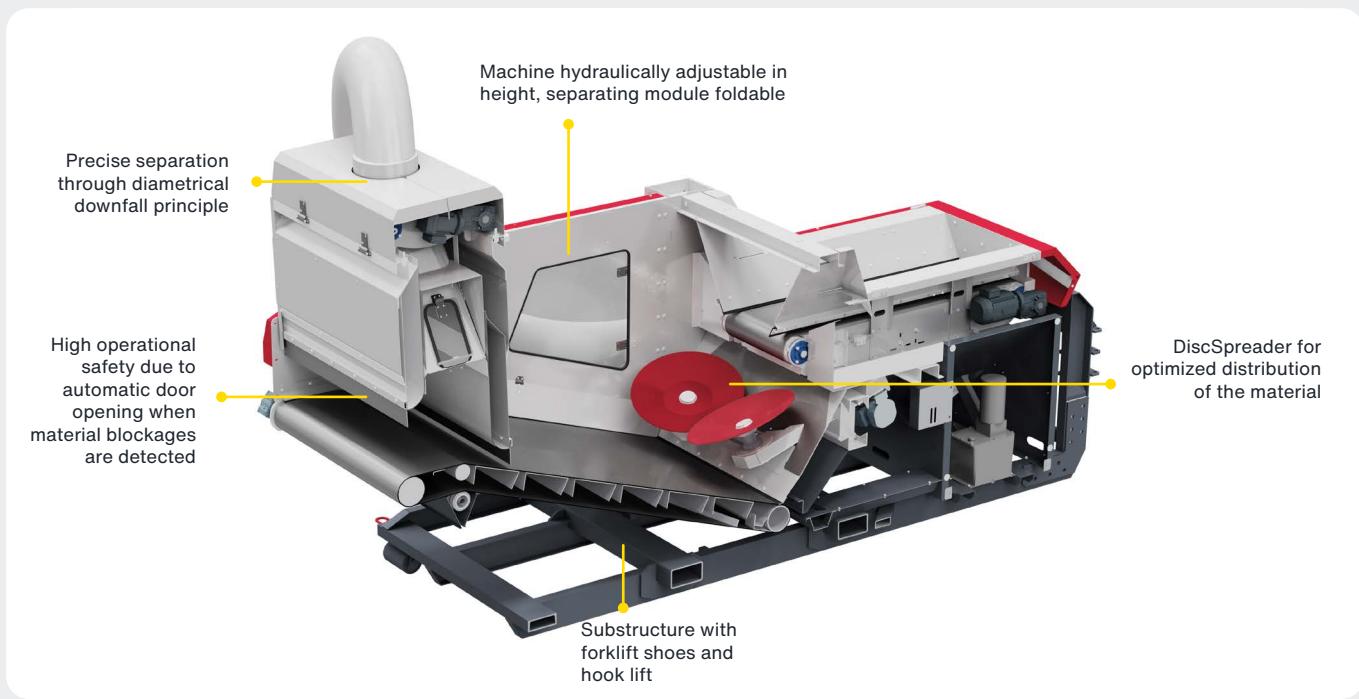
### Plastic

- Pretreatment of mixed plastics (film separation) before NIR
  - Higher throughput and purity in optical sorting

### Additional possible applications:

We will advise you for your individual challenge

# Details



Optical sensors detect material blockages and remove them by automatically raising the entry and exit gates.



Due to the easy accessibility of all areas, cleaning and maintenance of the machine requires minimal effort.

# Technical information

## Front view

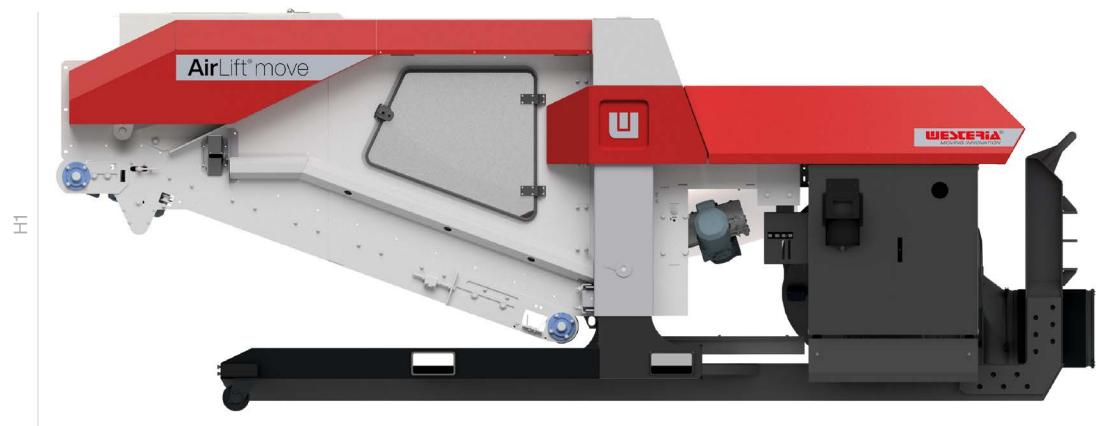


| Energy consumption                      | kW  |
|---|-----|
| Fan                                     | 22  |
| Feeding conveyor                        | 3   |
| SpeedCon                                | 4   |
| DiscSpreader                            | 4,4 |
| Hydraulics (no continuous operation)    | 1,5 |
| AirLift Gates (no continuous operation) | 1,5 |

| External dimensions     | L (mm) | W (mm) | H1 (mm) | Weight (kg) |
|-------------------------|--------|--------|---------|-------------|
| Transport position      | 6030   | 2290   | 2350    | 6200        |
| Operating position min. | 6200   | 2950   | 3730    | 6200        |
| Operating position max. | 6200   | 2950   | 4530    | 6200        |

| Feeding and dispensing level | Feeding conveyor H2 (mm) | Over-belt SpeedCon H3 (mm) | Over-belt extraction AirLift |
|------------------------------|--------------------------|----------------------------|------------------------------|
| Operating position min.      | 1919                     | 1279                       | Flexible over hose Ø=450     |
| Operating position max.      | 2719                     | 2079                       | Flexible over hose Ø=450     |

Side view



Operating position



Westeria® GmbH

Raiffeisenstr. 2, 48346 Ostbevern, Germany  
Tel +49 2532 88-0 | [www.westeria.de](http://www.westeria.de)

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