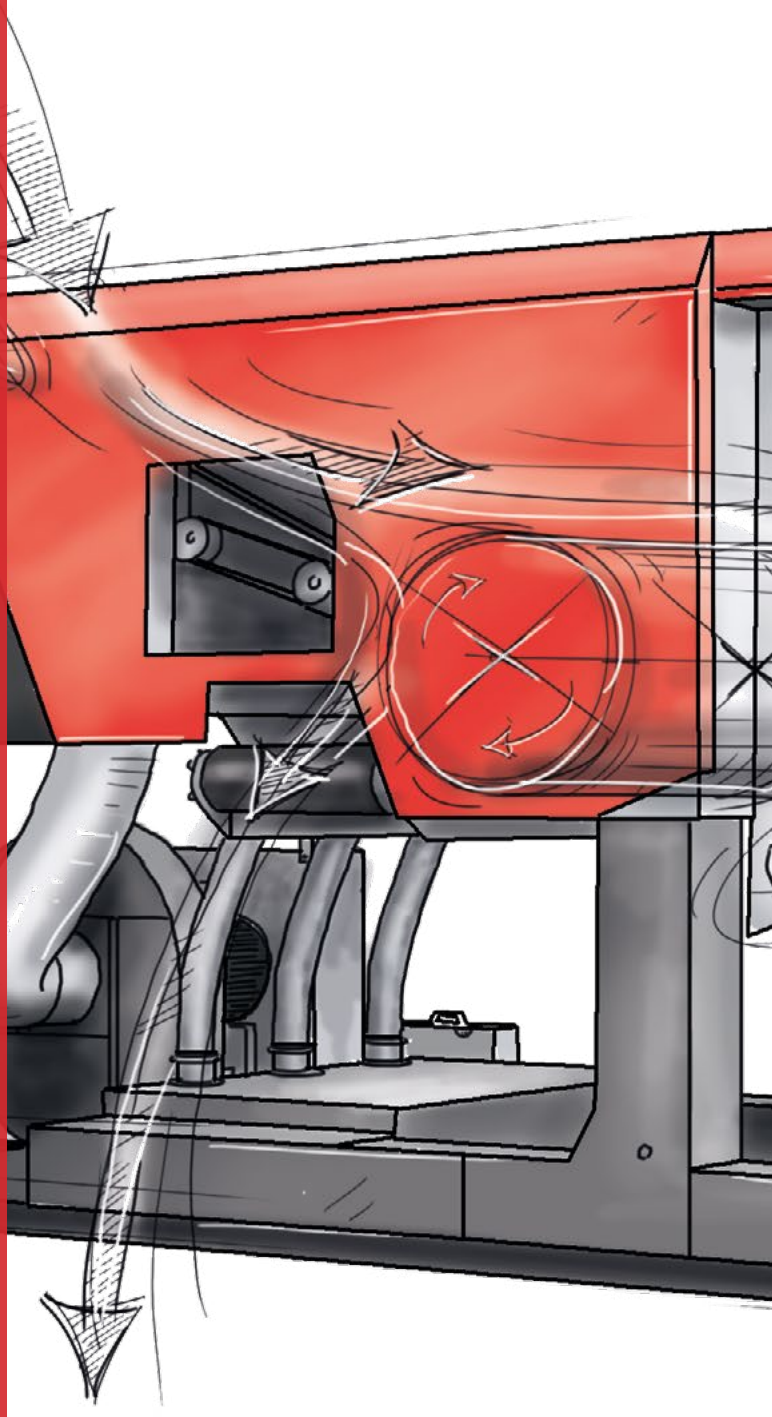
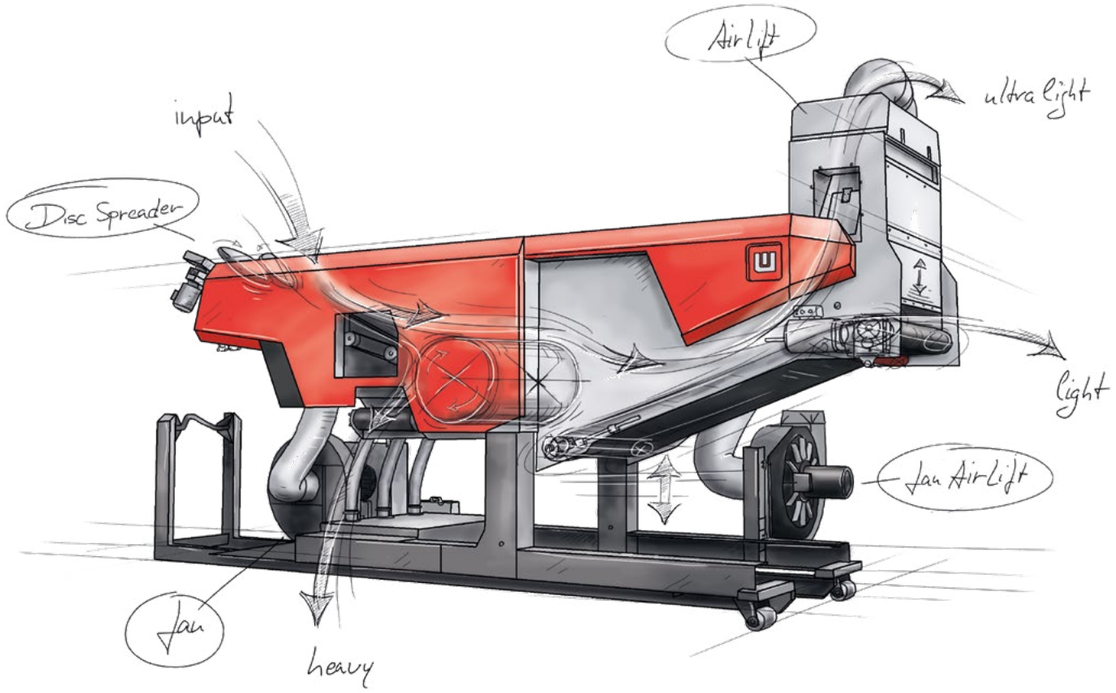
WESTERIA®
MOVING INNOVATION

# AirBasic®

**WINDSIFTING** | PRODUCT PRESENTATION



# AirBasic®




## Compact system for flexible solutions

The AirBasic brings the advantages of our proven windsifter technology to a small, mobile machine. It is available in different options to ensure optimum separation results at any location. Material can be fed in any direction (180 °). It has a patented adjustable and precise nozzle system that works much more efficiently than comparable products on the market. Thanks to our standardized production process, it can be delivered fast, regardless of the version or options selected. Fully equipped, it fits into only one 40ft HC container.

## 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 windsifter is composed of the following parts:

### AirBasic®

The main body of this machine consists of a two-way separation system that can easily integrate conveyors or other modules such as the AirLift or DiscSpreader to adapt to your needs.

### Acceleration belt

Belt that feeds material to a speed of up to 3 m/s.

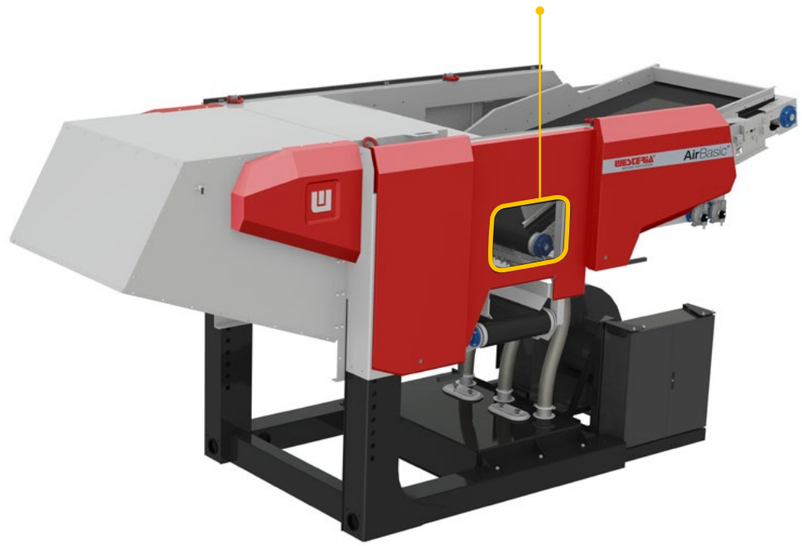
### Patented air system

Highest purity of output fractions due to marginal deviation of blowing velocity (max. 5 % at 1,500 mm operation width).

### Separation drum

Rotating drum that separates the heavy and light material.

The position of all crucial components of the system can be reproduced with the help of a coordinate system.




# Key advantages

### Maximal flexibility

Many options can be integrated to adapt the machine to your needs.

### Easy maintenance

Free access to all components in operation position.

### Energy-saving

Low system resistance allows higher pressure at the blower nozzle with the same fan power.

# Application examples

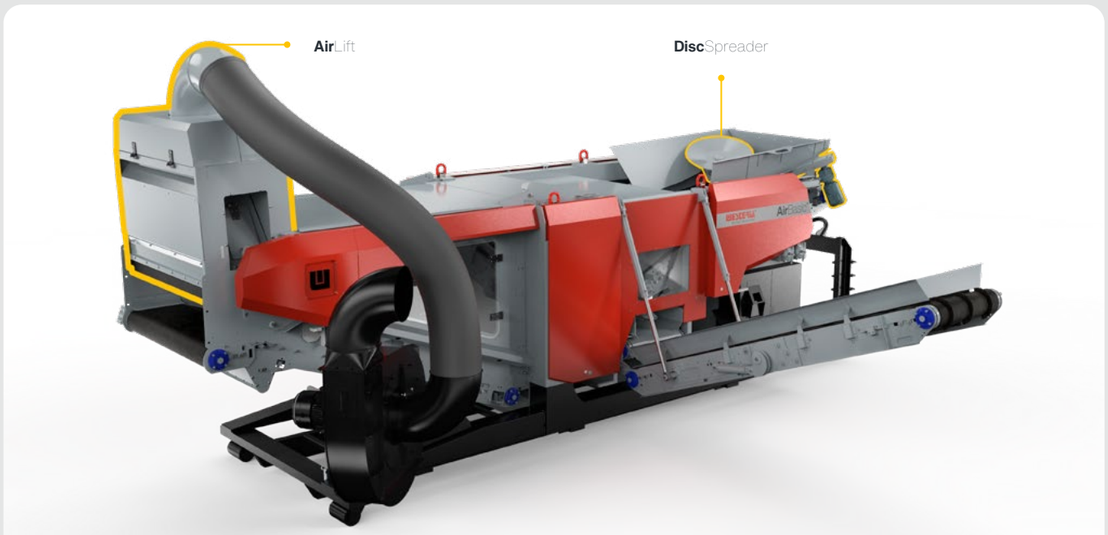
## Technology Center

We will test the performance of your materials at our Technology Center and we give you assurance that you will achieve the same results with your application.

- Remove films and packaging from compost or household waste
- Remediate waste directly in landfills
- Separate C&D waste
- Process PET bottles to separate light plastics and label papers
- Separate slag to benefit from these combustion residues
- Recycle even the toughest scrap materials without damaging this robust machine

# Options

Can be added to match your needs.

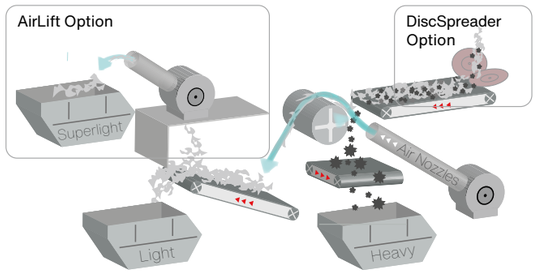



## AirLift®

Vacuum windsifting machine that creates a third fraction by separating ultra-light impurities from light fraction.

## DiscSpreader®

Material distribution machine that feeds smooth flows of non-linear material inputs.




## Mobility

Different carriages can be integrated to simplify transport and to achieve absolute mobility:

- Fork lift carriage
- Hook lift carriage
- Tow coupling and wheel chassis
- Crawler chassis (with remote control)

## Conveyors

Depending on requirements, the following Westeria conveyors can be installed:

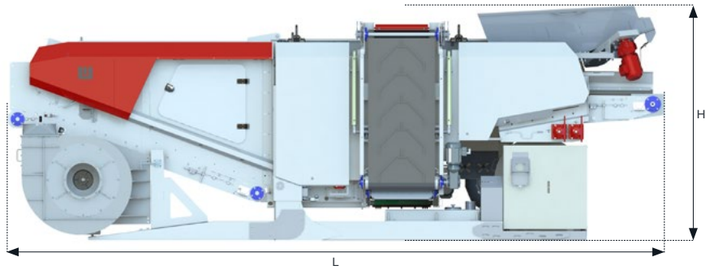
- Light discharge conveyor (max. height: 2525 mm)
- Lateral conveyor (heavy discharge)
- Pile conveyor (hydraulically retractable, max. height: 2915 mm)

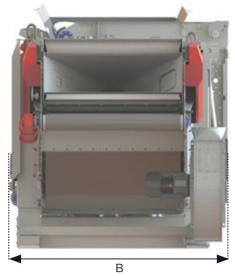
## Hydraulic level control

Optimal working height quickly and easily adjusted (max. 800 mm).

# Technical information

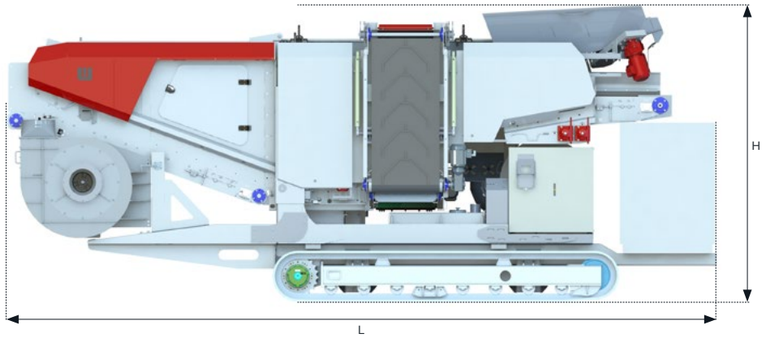
## Without roll on/off frame and generator

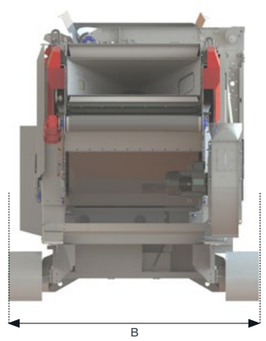



| Option | L (mm) | B (mm) | H (mm) | W (kg) |
|---|---|---|---|---|
| Basis | 6559 | 2322 | 2261 | 6600 |
| Lateral conveyor (heavy) | 6559 | 2476 | 2278 | +300 |
| Pile conveyor (heavy) | 6559 | 2523 | 2412 | +670 |
| DiscSpreader | 6559 | 2476 | 2465 | +450 |
| AirLift | 6559 | 2531 | 2278 | +1300 |
| Light discarge conveyor | 7849 | 2322 | 2278 | +1600 |

## Crawler chassis/forklift shoes

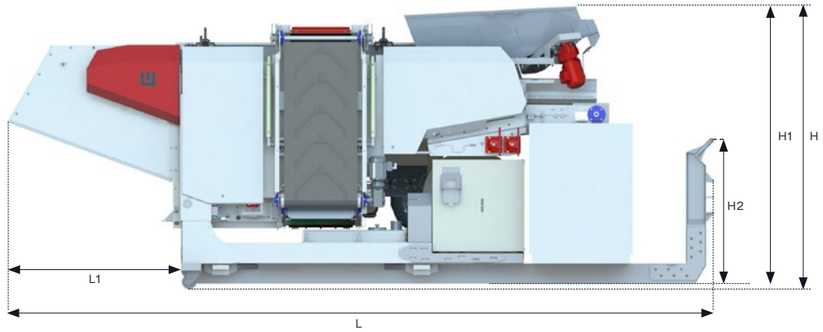


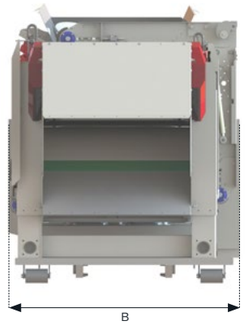




| Option | L (mm) | B (mm) | H (mm) | W (kg) |
|---|---|---|---|---|
| Crawler chassis (+ generator) | +700 | 3000 | +885 | +6100 |
| Forklift shoes | - | - | +148 | +540 |

| Feeding and hand-over heights (mm) | Positions | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|
| With height adjustments | Feed | 2470 | 2570 | 2670 | 2770 | 2870 | 2970 | 3070 | 3170 | 3270 |
| (top edge) | Feed without DS | 2070 | 2170 | 2270 | 2370 | 2470 | 2570 | 2670 | 2770 | 2870 |
| Without pile/light conveyor | Lateral conveyor (heavy) | 470 | 570 | 670 | 770 | 870 | 970 | 1070 | 1170 | 1270 |
| (lower edge) | Light discharge | 450 | 550 | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250 |
| With pile/light conveyor | Pile conveyor (heavy) | 1530 | 1630 | 1730 | 1830 | 1930 | 2030 | 2130 | 2230 | 2330 |
| (lower edge) | Light discharge | 1140 | 1240 | 1340 | 1440 | 1540 | 1640 | 1740 | 1840 | 1940 |
| Options with height impact | Roll/on frame (DE) | +220 | +220 | +220 | +220 | +220 | +220 | +220 | +220 | +220 |
| | Forklift shoes | +150 | +150 | +150 | +150 | +150 | +150 | +150 | +150 | +150 |
| | Crawler chassis | - | - | +685 | +685 | +685 | +685 | +685 | +685 | +685 |

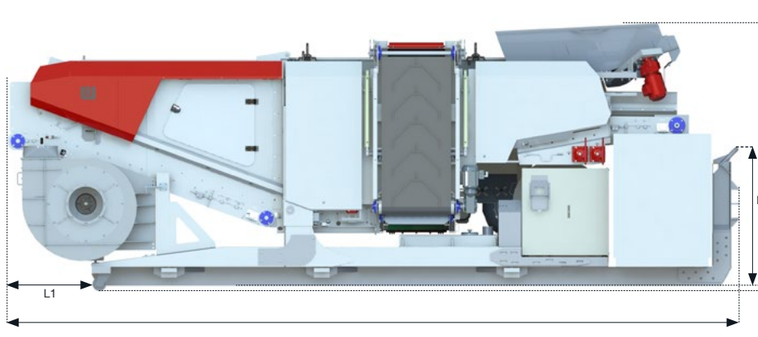
## With roll on/off frame and small light fraction chamber

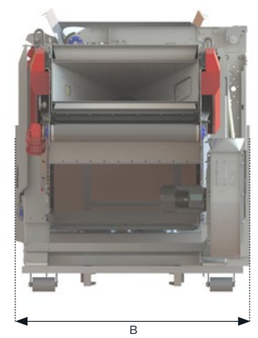



| With generator | L (mm) | B (mm) | H (mm) | W (kg) | L1 (mm) | H1 (mm) | H2 (mm) |
|---|---|---|---|---|---|---|---|
| Basis | 7704 | 2550 | 2732 | 8600 | 1899 | 2672 | 1570 |
| Lateral conveyor | 7704 | 2550 | 2732 | +300 | 1899 | 2672 | 1570 |
| Pile conveyor | 7704 | 2550 | 2892 | +670 | 1899 | 2832 | 1570 |
| DiscSpreader | 7704 | 2550 | 2945 | +450 | 1899 | 2885 | 1570 |
| **Without generator** | **L (mm)** | **B (mm)** | **H (mm)** | **W (kg)** | **L1 (mm)** | **H1 (mm)** | **H2 (mm)** |
| Basis | 7704 | 2476 | 2532 | 6800 | 1899 | 2472 | 1570 |
| Lateral conveyor | 7704 | 2476 | 2532 | +300 | 1899 | 2472 | 1570 |
| Pile conveyor | 7704 | 2523 | 2692 | +670 | 1899 | 2632 | 1570 |
| DiscSpreader | 7704 | 2476 | 2745 | +450 | 1899 | 2685 | 1570 |

## With roll on/off frame and big light fraction chamber




| With generator | L (mm) | B (mm) | H (mm) | W (kg) | L1 (mm) | H1 (mm) | H2 (mm) |
|---|---|---|---|---|---|---|---|
| Basis | 8425 | 2550 | 2758 | 10880 | 970 | 2698 | 1570 |
| Lateral conveyor | 8425 | 2550 | 2758 | +300 | 970 | 2698 | 1570 |
| Pile conveyor | 8425 | 2550 | 2892 | +670 | 970 | 2832 | 1570 |
| DiscSpreader | 8425 | 2550 | 2945 | +450 | 970 | 2885 | 1570 |
| AirLift | 8425 | 2550 | 2758 | +1300 | 970 | 2698 | 1570 |
| **Without generator** | **L (mm)** | **B (mm)** | **H (mm)** | **W (kg)** | **L1 (mm)** | **H1 (mm)** | **H2 (mm)** |
| Basis | 8425 | 2476 | 2558 | 9100 | 970 | 2498 | 1570 |
| Lateral conveyor | 8425 | 2476 | 2558 | +300 | 970 | 2498 | 1570 |
| Pile conveyor | 8425 | 2523 | 2692 | +670 | 970 | 2632 | 1570 |
| DiscSpreader | 8425 | 2476 | 2745 | +450 | 970 | 2685 | 1570 |
| AirLift | 8425 | 2531 | 2558 | +1300 | 970 | 2498 | 1570 |

**Westeria® GmbH**

Raiffeisenstr. 2, 48346 Ostbevern, Germany
Tel +49 2532 88-0 | www.westeria.de

eFACTOR3 LLC
15050 Choate Circle
Suite E
Charlotte, NC 28273

P 704-944-3232
877-801-3232
F 704-944-3234
www.efactor3.com
sales@efactor3.com