



**Westeria windsifter –
exact und clean separation of high-
grade recycling raw materials**

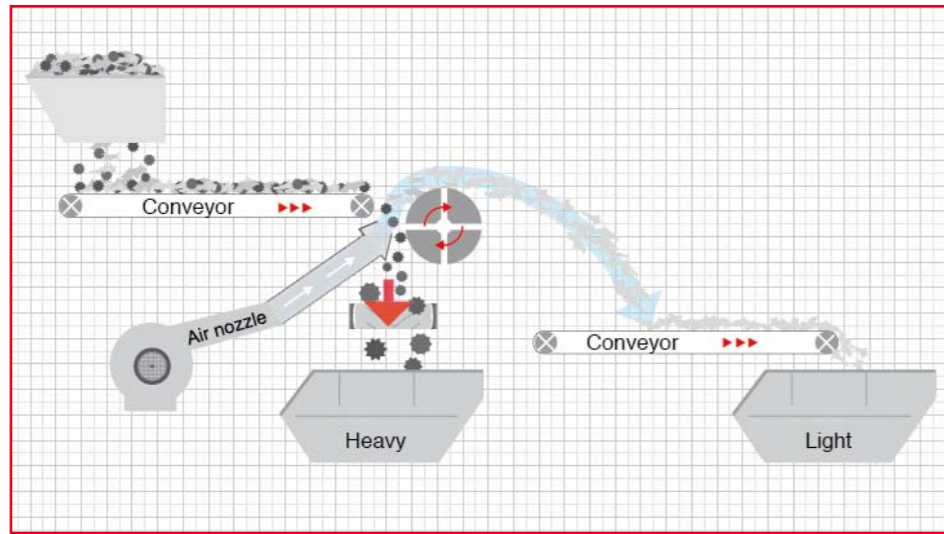
Windsifter and its functions

The patented Westeria windsifter technology essentially consists of 3 basic components: The conveyor belt, the nozzle, and the rotation drum. The input material is preferably spread in a single layer across the entire width of the conveyor belt. The material is then transported at an adjusted speed up to the discharge edge. An adjustable nozzle produces an upward stream of air on the discharge edge.

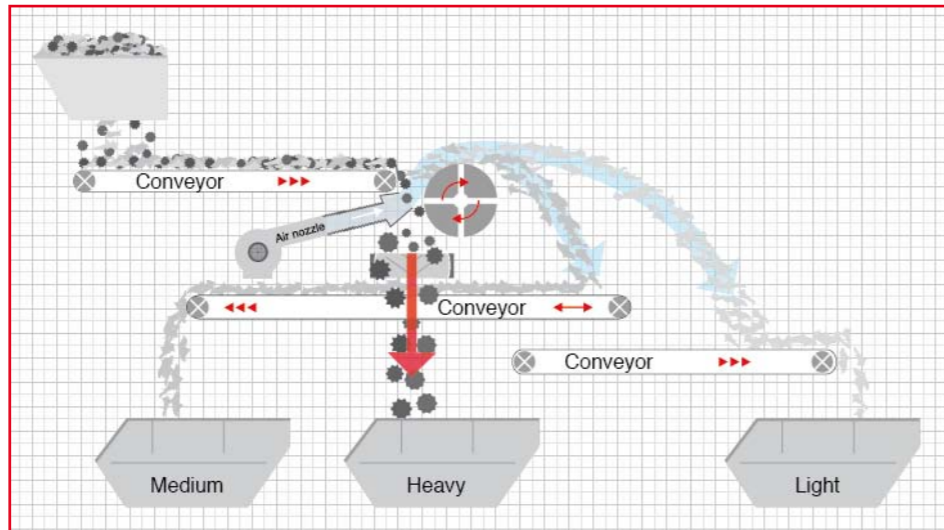
The air stream gathers on the upper area of the rotation drum and is guided into the expansion room with the laminar flow. The material meets the stream of air and is separated into light and heavy material.

The light material reaches the expansion room via the rotating drum. Here the speed of the air is radically reduced and the light materials trickle onto a container or land on a discharge conveyor. The heavy materials fall downward into a container or onto a discharge conveyor before reaching the rotation drum.

The volume of air introduced in the expansion room is extracted in the upper area and sucked back in via the fan or guided into a filter system depending on the type of application. In order to obtain high-grade recycling materials Westeria has designed a special windsifter that is used to sort the input material into 3 fractions at a high degree of separation efficiency.



Windsifter – 2 fractions



Windsifter – 3 fractions



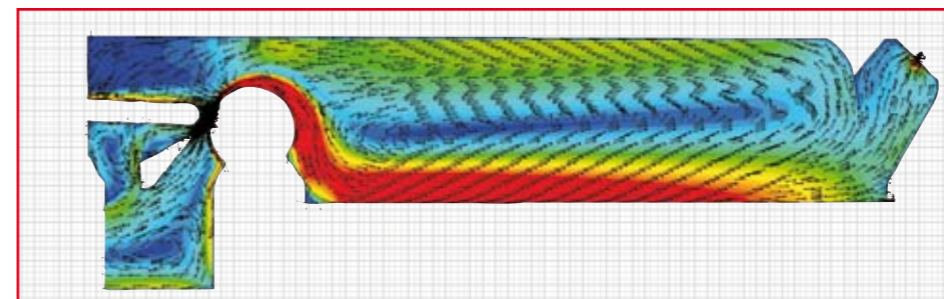
Input material – construction rubble



Heavy fraction – construction rubble



Light fraction – construction rubble



Customer Feedback and further improvements, e.g. fluid dynamics simulation ensure that only high-quality systems leave our production facility.

Benefits

- Proven technology with over 300 assembled units
- Output up to 250 t/h or 200 m³/h depending on the material
- Working width from 800 to 2000 mm
- Patented Westeria solution
- Continuous improvements through tests, fluid dynamics simulation, customer feedback
- Very efficient due to optimized flow design
- Customized design
- 3 different demonstration models for customer presentations
- Test system for sample separation of material delivered by the customer
- Best separation results thanks to high degree of separation
- Compact design, requires little space also for retrofitting
- Adapted peripheral equipment
- Can be used in circulating air operation which also produces very little exhaust air
- Semi-mobile, wheel-mobile, caterpillar mobile, stationary
- Precision setting options for all materials through adjusting the feed speed, air speed, angle of the nozzle, and the position of the conveyor belt
- High level of safety for shredders, more reliable separation of even heavy impurities (iron and non-iron materials) and elimination of high costs for spare parts for shredders and granulators, long downtimes resulting from shredder and granulator damage are also eliminated
- Optional automatic adjustment for quick adaptation to the different materials
- Triple separator; precision adjustment of separation between average and light fraction for very clean heavy and light fractions
- Safety level upstream of the shredder

Range of applications

- Construction rubble
- Unsorted construction waste
- Residual waste
- Glass
- Wood
- Compost
- Commercial waste
- Scrap metal
- Waste incineration slag
- Production of refuse-derived fuel



Input material

Heavy fraction refuse

Light fraction refuse

Recycling systems Recycling systems

WESTERIA
FÖRDERTECHNIK



Many satisfied customers confirm that the patented Westeria drum windsifter is simply unrivaled on the market with its wide range of optional settings.



We plan, design, and construct our Westeria windsifters depending on the application, structural conditions, and volume of output.

Don't hesitate to contact us. We look forward to hearing from you and our engineers and technicians will be glad to help you to implement your special requirements in a simple and uncomplacate manner.

This is how we produce customized windsifter systems for the most difficult range of applications. Westeria windsifter, quality "made in Germany".



RECYCLING SYSTEMS

Construction rubble systems



- Stationary and mobile windsifters
- Separation into light and heavy fractions
- Longtime experience
- Sturdy construction
- Long service life
- Customized complete systems



We can fall back on our year long experience as competent manufacturers of windsifters for processing construction rubble. Systems with a sturdy construction, long service life, and high output are in high demand especially in the construction rubble separation segment.

Our engineers design complete systems from bunker systems to conveyor systems, and mobile or stationary windsifters with corresponding peripheral equipment.



Westeria offers all machines and systems which are suitable for daily use and reliably separate the input material into the specified fractions. Of course our specialists will remain available to answer your questions after assembly and commissioning of the system.



Innovative range of products

Chain conveyor



Chain belt conveyor



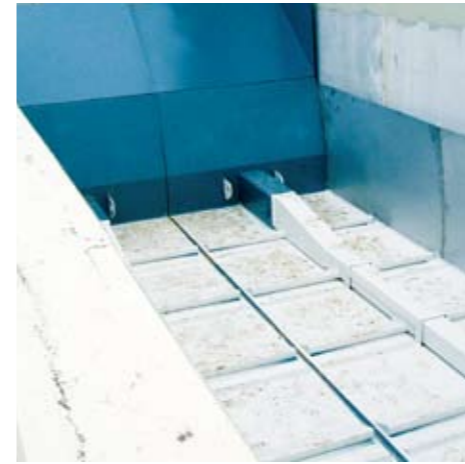
Gas proof chain belt conveyor

Belt conveyor



Throughed belt conveyor

Bunker systems



Moving / ladder floors

Conveyor system components



Sorting buildings and sorting conveyors

We deliver quality products that comply with your individual specifications regardless if you need single components or complete conveyor lines, flat belts, chain belts, hinge or troughed chain conveyors, heavy duty roller conveyors, or waste pile belts with a swivel carriage.



Slat conveyors

Customized peripheral equipment complements the Westeria machine and system manufacturing. The complete production process is subject to the quality assurance system DIN ISO 9000/9001.



Flat belt conveyor with peripheral equipment



Bunker-belt conveyor



Complete conveyor systems



Troughed chain conveyors



Cavity belt conveyor with inspection and hood covering



Belt conveyor in tubular construction



Feeding bunker slat conveyor



Feeding bunker for construction rubble



Roller conveyors



Westeria promotes value

Production, logistics, recycling – whenever unit or bulk materials are conveyed or recyclable fractions and materials are separated or sorted – special solutions are required: economical, solid, durable, reliable and customized to meet special needs.

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