

Westeria – Range of innovations

Windsifting | Conveying | Dosing | Spreading

TABLE OF CONTENTS

Introduction to Westeria	5	Products	11
Business	6	Overview	12
Values	7	Windsifting	14
Services	8	Conveying	16
Distribution network	10	Dosing	22
		Spreading	23

MOVING INNOVATION

ABOUT WESTERIA

Our business and values, the services that we offer and our distribution network.

BUSINESS

Founded in

1956

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.

Employees

145

Turnover

40M €

VALUES



Be sustainable

We create long-term value by facilitating the recycling of waste. We are committed to working towards 100% sustainable production.



Be innovative

We embrace the latest technologies to improve our clients' path towards a circular economy.



Be a team

We collaborate with our peers, train young professionals and take care of people.



We build the hardware
of the circular economy

DESIGN
& ENGINEERING

We have a team of engineers and technical experts that are constantly researching, improving our machines, optimizing processes and developing new products to offer high quality windsifting, dosing, spreading and conveying solutions that facilitate recycling. Our work is driven by innovation and sustainability. We work closely with universities. We have licenced 21 patents and 11 registered designs.

PRODUCTION

Our headquarters are located in Ostbevern (Germany) with a 16.745 m² factory where we produce all of our machines, ensuring quality, fast detail coordination and close collaboration between our different teams. The combination of state-of-the-art, fully automated manufacturing steps and manual operations assisted and monitored by IT systems enables us to achieve highest quality, reliability and efficiency.

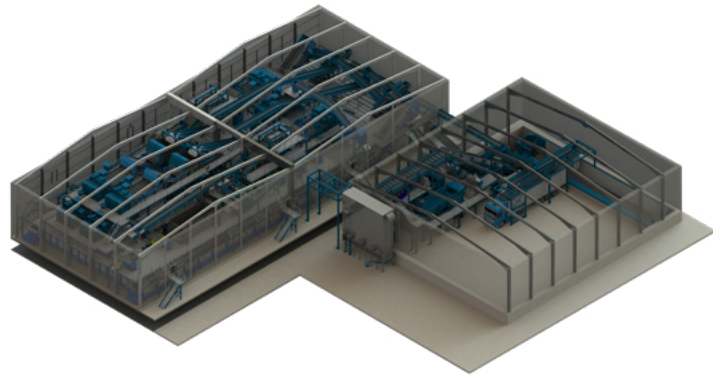
TECHNOLOGY
CENTER

At our location you will find a complete pilot plant where we test the separation performance of our clients' materials in any of our machines, we analyse the results for demonstration purposes and we provide performance videos and measurement data.

We are looking forward to your visit.

CUSTOMER
SERVICE

To ensure our customers' long-term competitiveness we take care of the assembly of our products and we train their employees: from maintenance to safe system operation. We also provide maintenance work, quality inspections and spare-part deliveries.



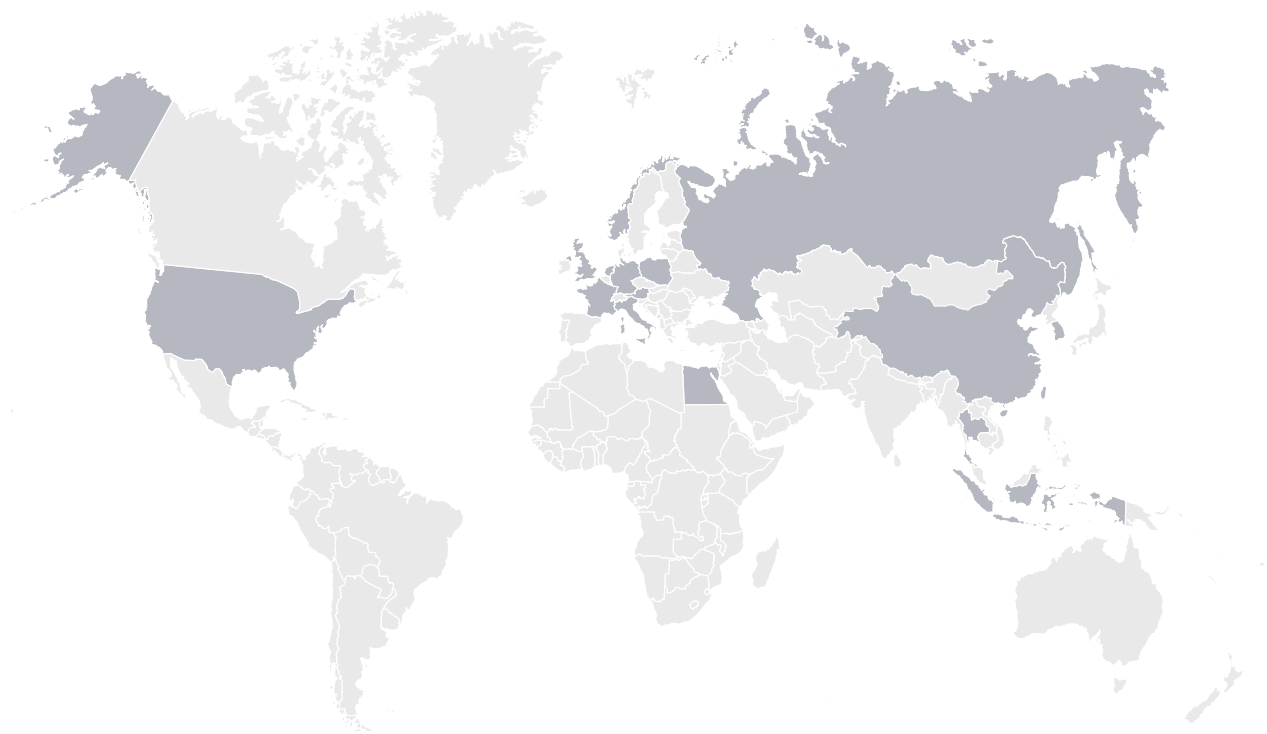
WINDSIFTING | CONVEYING | DOSING | SPREADING



Distribution network

WORLDWIDE RESELLERS

Thanks to a strong worldwide dealer network, we can guarantee you excellent on-site service in addition to a fast response time.



PRODUCTS

Products' overview and description of a selection of products.

OVERVIEW

WINDSIFTING

- AirStar®
- AirBasic®
- AirLift®
- AirLift® move

CONVEYING

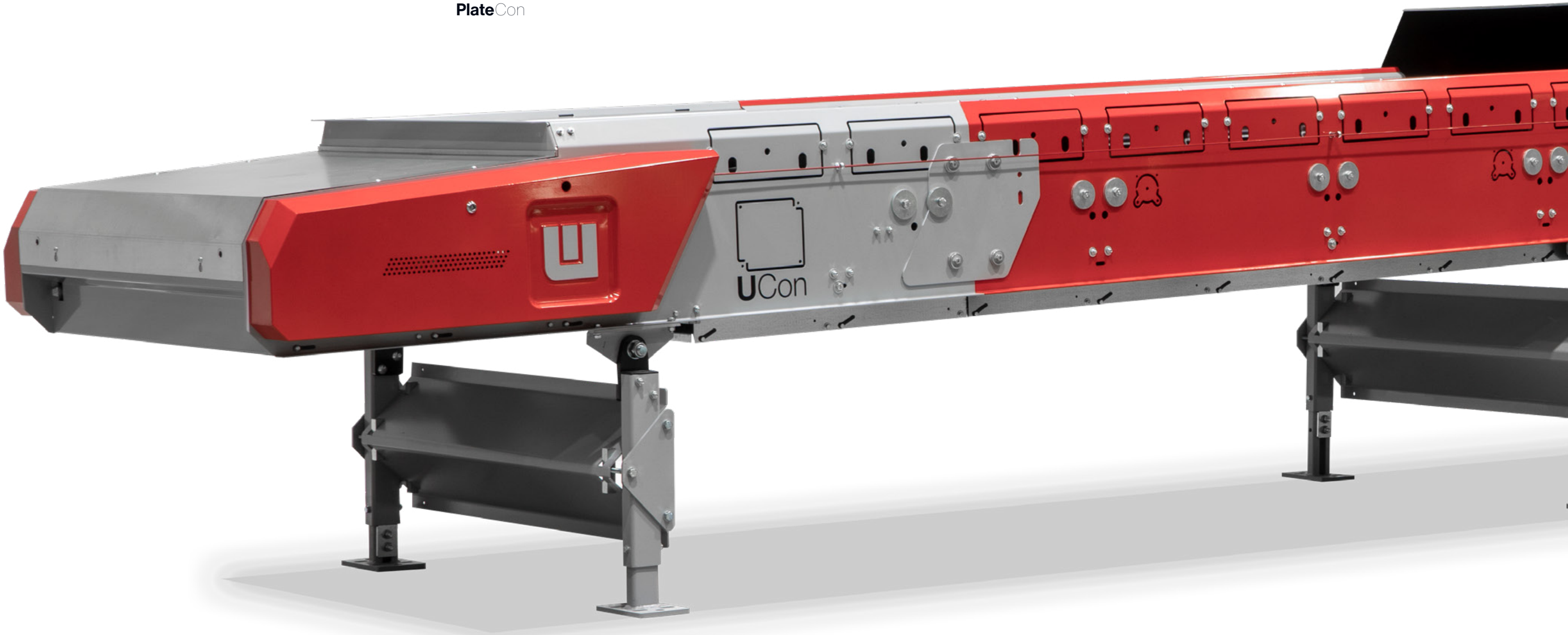
- PipeCon®
- BendCon
- WeKea®
- FlatCon®
- UCon®
- SteelCon®
- ChainCon
- PlateCon

DOSING

- MovingFloor®
- MultiFeeder
- DoseCon®

SPREADING

- DiscSpreader®
- DiscSpreader® automove



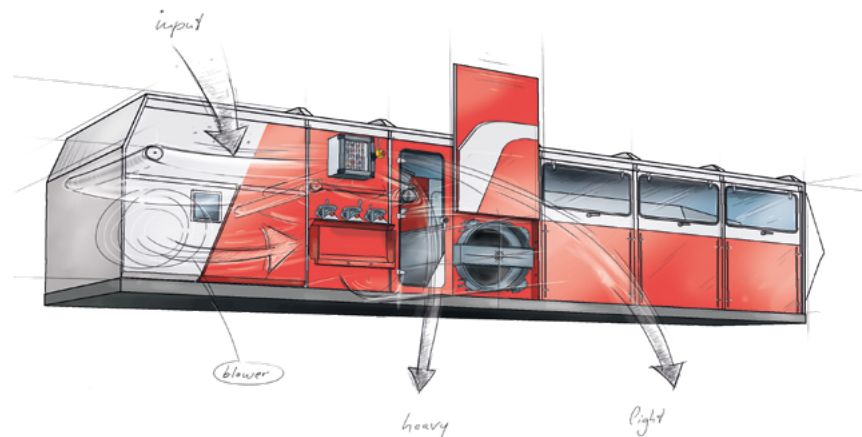
PRODUCTS' DESCRIPTIONS

WINDSIFTING

WESTERIA®
MOVING INNOVATION

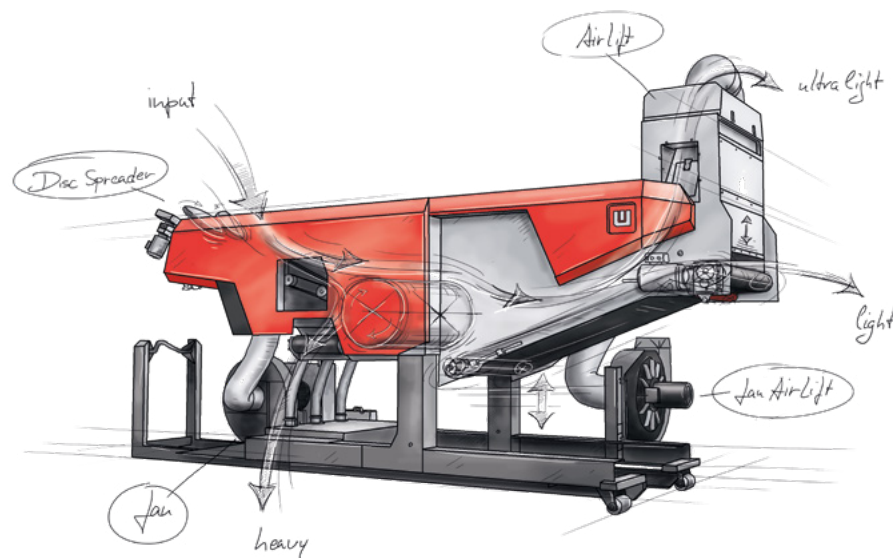
AirStar®

The AirStar is our best selling windsifter because of its compact design. It uses a unique patented Westeria system that provides the highest aerodynamic efficiency that allows a throughput of up to 400 m³/h. All of its components are easily and individually adjustable and accessed to facilitate its maintenance.



AirBasic®

The AirBasic combines the advantages of our air classifier technology in a compact, mobile machine. Various options and transport possibilities ensure optimum separation results at any location. All components are accessible, easing its maintenance. The machine can be used, among other applications, to remove films and packaging from compost and the processing of PET bottles.



PRODUCTS' DESCRIPTIONS

Westeria - range of innovations

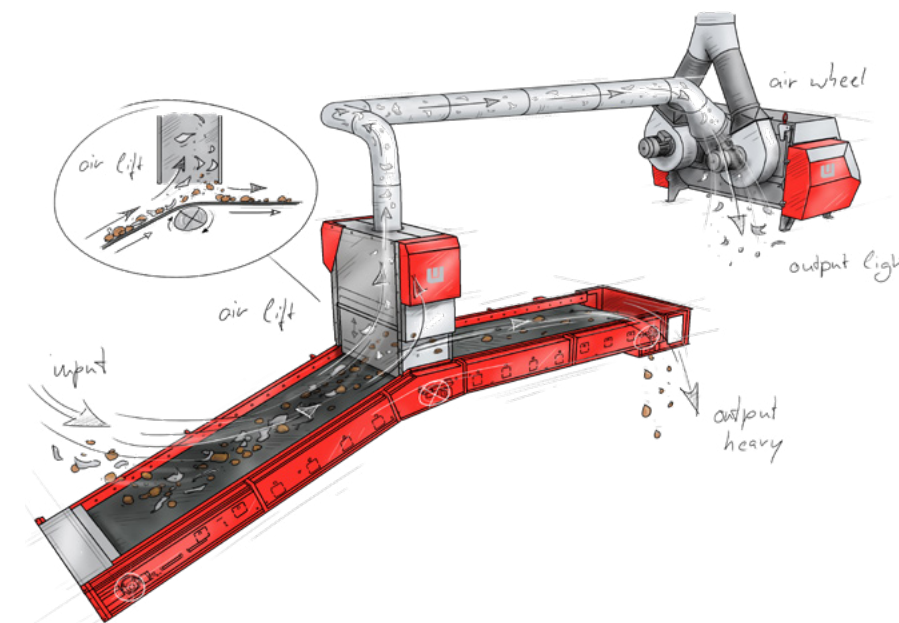
WINDSIFTING

WESTERIA®
MOVING INNOVATION

AirLift®

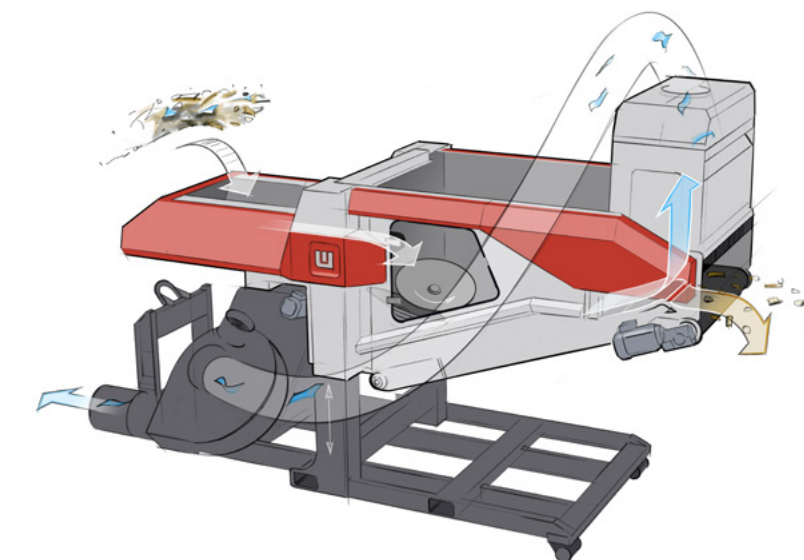
The AirLift separates what previously could not be separated. Materials with very similar specific densities are its speciality. This windsifter also ensures maximum efficiency when used in front of the NIR sorter.

The AirLift uses the diametrical downflow principle in the settling chamber to separate the different fractions even more precisely in a second stage. At the same time, the operating parameters can be precisely set via the integrated target pressure control.



AirLift® move

The mobile version of our popular vacuum windsifter clears your material of impurities as uncomplicatedly as never before. Our proven technology of the AirLift windsifter is now more flexible than ever. The AirLift move brings effective separation to any location. For compost processors, the AirLift move therefore enables the effective and efficient removal of films from the valuable organic material.

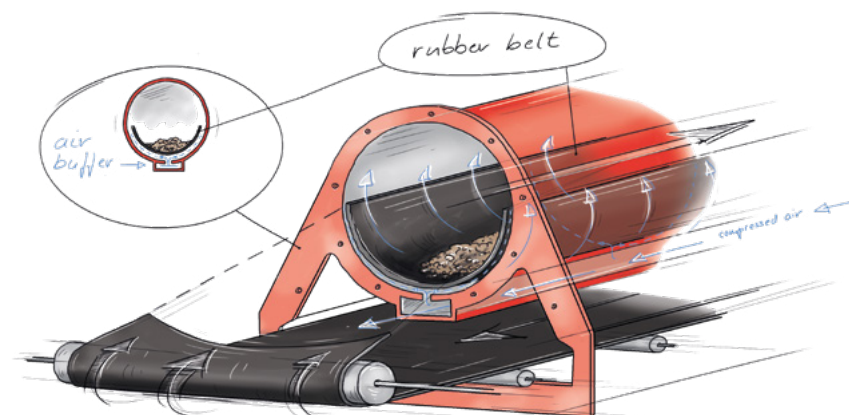


CONVEYING



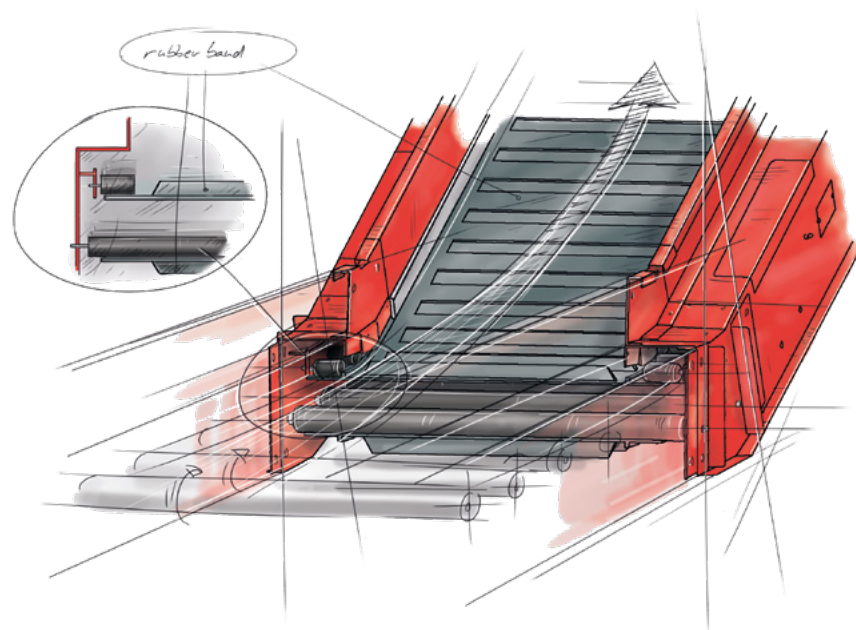
PipeCon®

A conveyor unit for any kind of bulk materials with exact defined grain sizes like in the woodworking and cement industry. The PipeCon has an extremely high conveying capacity up to 500t/h and ensures no gravel leakage. The supports can be up to 60 m apart. The belt guide uses an air buffer and a walkway can be attached directly, saving an additional supporting structure.



BendCon

With the folding conveyor system BendCon, Westeria provides you a rolling supported folding conveyor belt as the ideal solution for all „conveying tasks“ with an upward bend. The angle of the folding conveyor belt is aligned or adapted to your specific circumstances. The BendCon has proven itself as a draw-off feeder for shredders, for instance. The sophisticated and rugged roller system and the corresponding belt leave no wishes unfulfilled and easily transport the feed material.

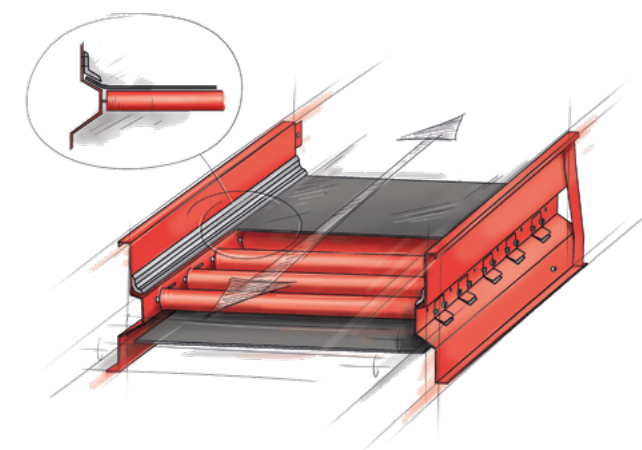


CONVEYING



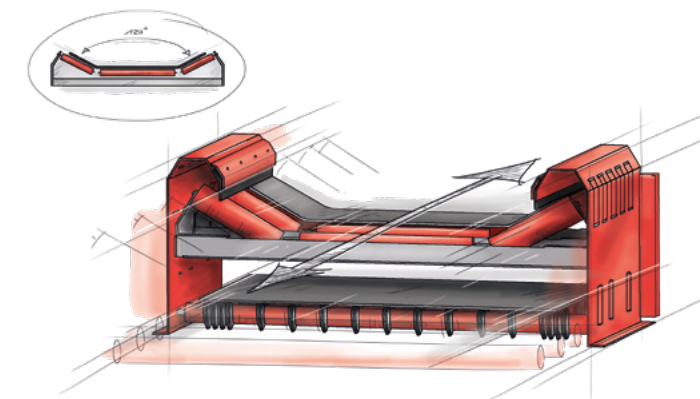
WeKea®

WeKea is a Westeria sub-brand specialized in modular conveyor systems. With this series of products, Westeria has revolutionised the procurement process of conveyors: it uses an online configurator that gives you an official quote within minutes. The modular design of the conveyors allow shipments in less than six weeks and use much less freight space. All this, without compromising our commitment to quality.



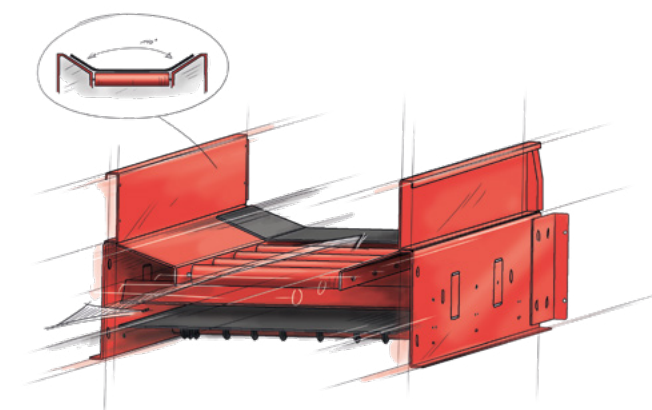
Modules

FlatCon®
UCon®
SteelCon®
ChainCon
PlateCon



WeKea® customised

If your needs do not fit any of our configurable modular conveyors, with WeKea customised we can manufacture individually engineered conveyors with our series-produced components, lowering the production costs and shortening delivery times.



More information on the following pages.

CONVEYING



KEY ADVANTAGES

Fast and easy configuration

Every application is different. But we still think that getting a quote for a conveyor should be easy. That's why we put a lot of work into the design of our online configurator.

Planning certainty

Within seconds you will receive an official quotation and an approvable 3D drawing. So you can immediately proceed with the further planning of your project

The conveyors

After five years of development and optimisation, we have developed the five WeKea conveyor belt types: FlatCon, UCon, SteelCon, ChainCon and PlateCon. The challenge was not only to standardise all parts and components, but also to keep the whole system as flexible as you are used to from Westeria.

Fast and efficient delivery

Every part has been designed to be as space-saving as possible, down to the smallest detail, in order to minimize freight costs. Most parts are already in stock and thanks to the WeKea® modular system your local staff can assemble the conveyors themselves.

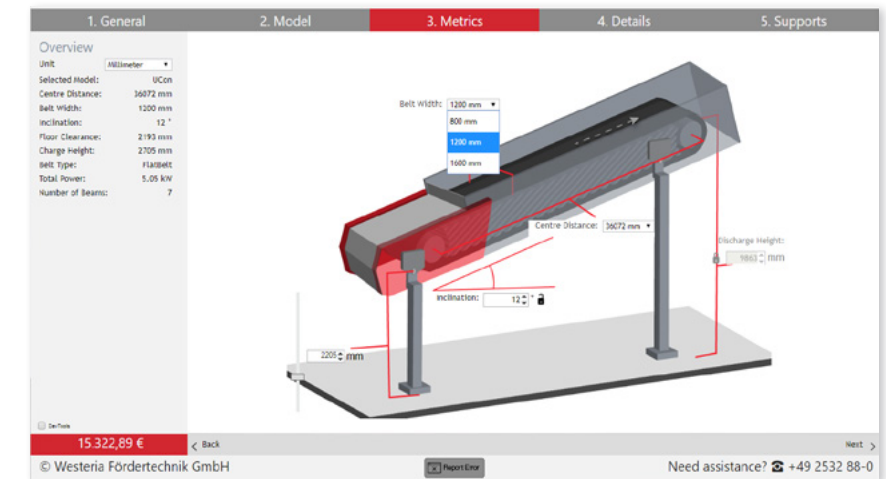
CONVEYING



KEY ADVANTAGES

Configurator

- Real-time price calculator
- Sophisticated design
- Offer is generated immediately
- Support from Westeria personnel
- Automatic generation of approvable 3D drawings



Modular system

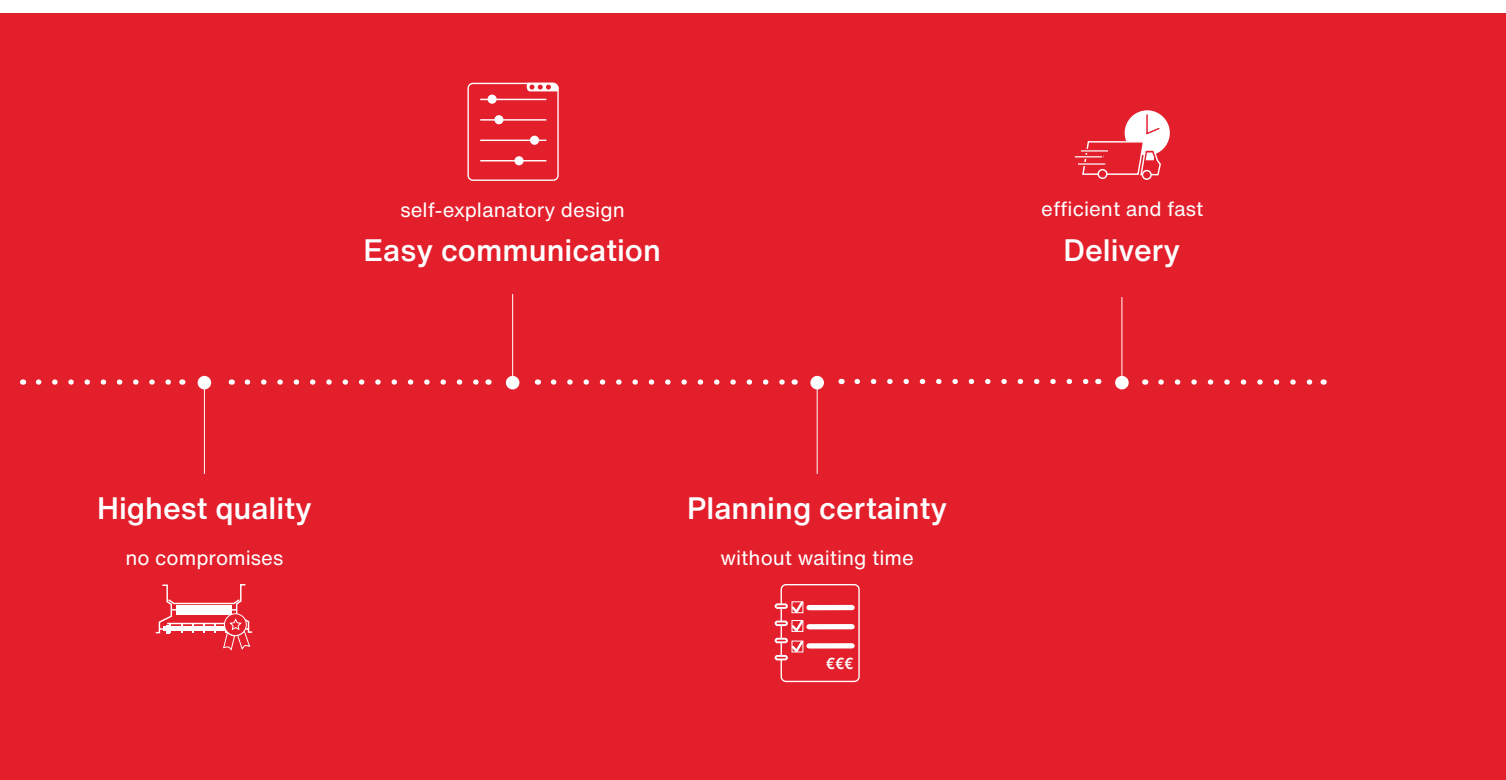
- Extremely economical transport volume
- Fast delivery times
- Setup by local personnel possible
- Also available as preassembled conveyors
- Accurate calculation of transport volume and weight



We will be happy to advise you.

In a non-binding online appointment, we will demonstrate our online configurator and explain everything you can do with it. From the configuration to the quotation and the 3D download, you can get to know all the details.

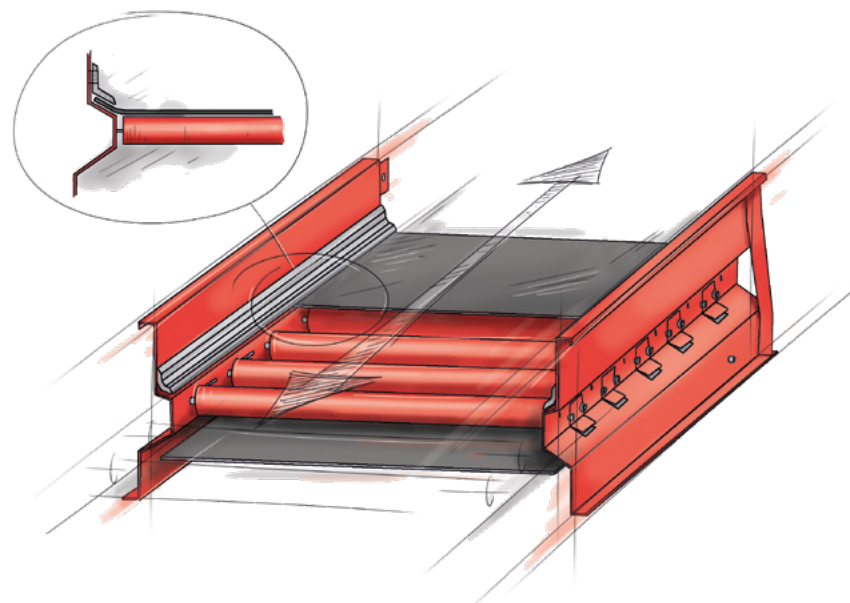
Our customers report that usually 90% of the conveying tasks in a plant can be handled with WeKea standard belts. The remaining 10% can also be solved with minor engineering using our WeKea customised programme.



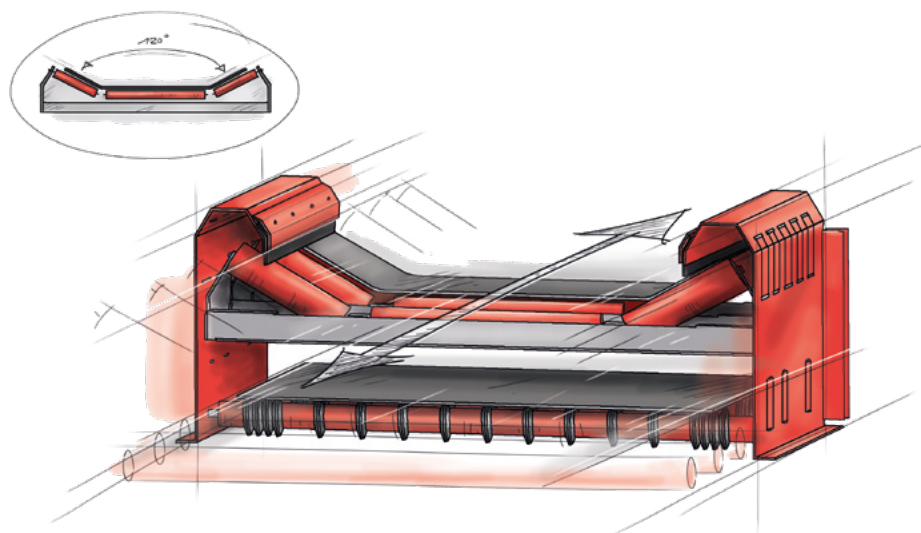
CONVEYING

**FlatCon®**

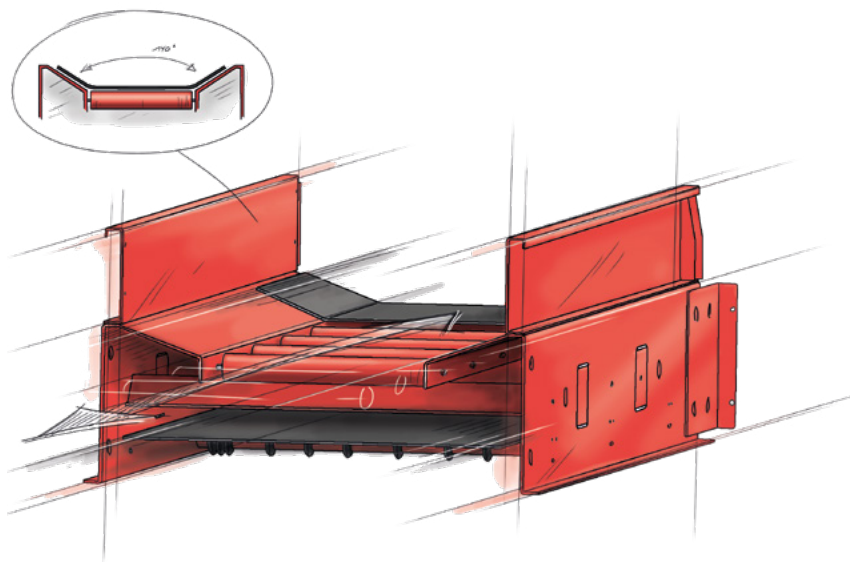
- Optimal side sealing
- Energy-saving drive power
- Extremely versatile

**UCon®**

- Ideal for all bulk materials
- Tested and optimized for years
- Easily accessible carrying rollers even with side sealing

**SteelCon®**

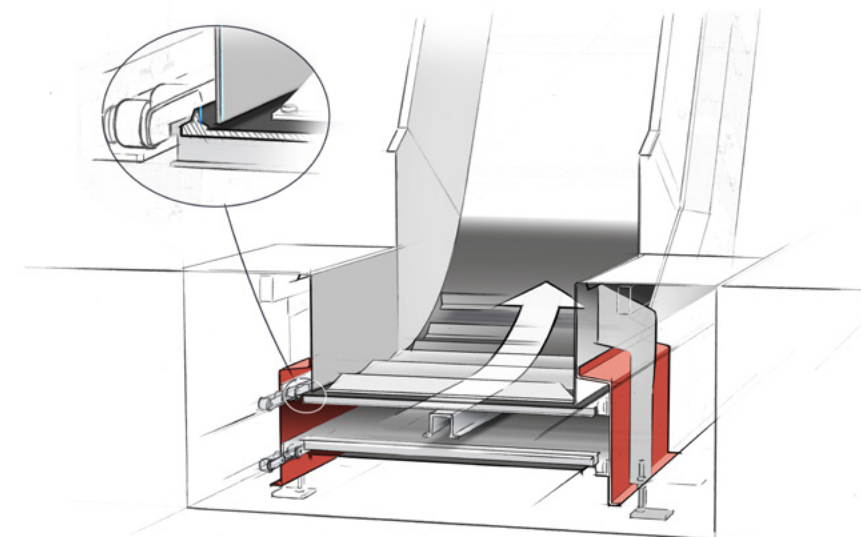
- Perfect for toughest applications
- Long service life even under heavy use
- Reduction of wear parts



CONVEYING

**ChainCon**

- Inclined conveyor with chain drive
- Completely redesigned: durable and extremely maintenance-friendly components
- Withstands even inappropriate, heavy use
- Automatic chain oiling with active pump, 30L tank and fill level warning lubricates at the optimum position leading to considerably longer chain life without additional manpower
- Impact load is transferred directly to supports, so that the chain is not stressed
- Chain with 140,00 N breaking strength
- Complete overhaul possible cost-efficiently thanks to easy-to-change chain guides, simple to replace drums and other easily accessible components

**PlateCon**

- All the ChainCon advantages
- 8 mm strong plates for ambitious applications
- No material can jam between the plate segments thanks to the 30° milling on both sides and the rubber seal
- Damaged segments can be easily replaced

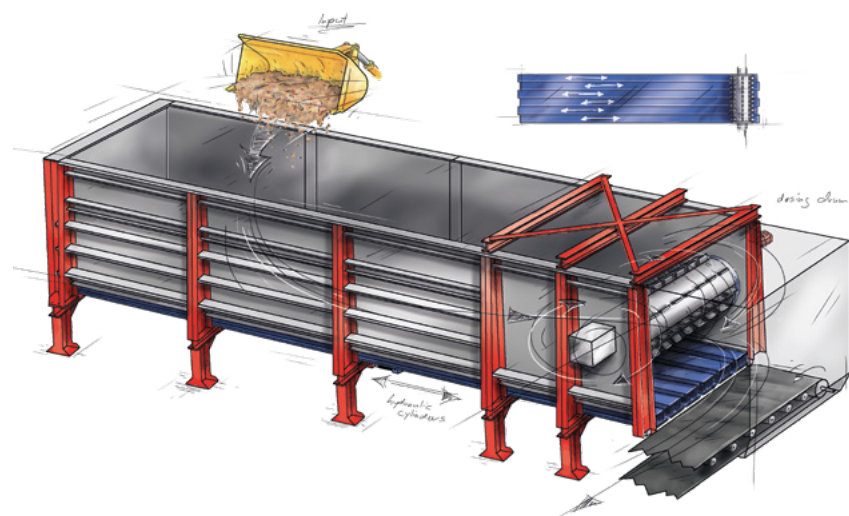


DOSING



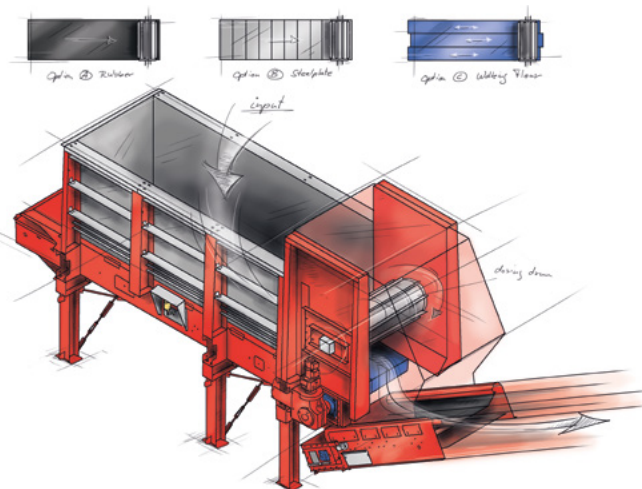
MovingFloor®

The MovingFloor is a feeding hopper that ensures an even and continuous material. Thanks to the flexible components, on-site assembly or subsequent expansion or compression of the machine is very easy. Different materials such as RDF, compost, mixed construction waste and much more can be processed.



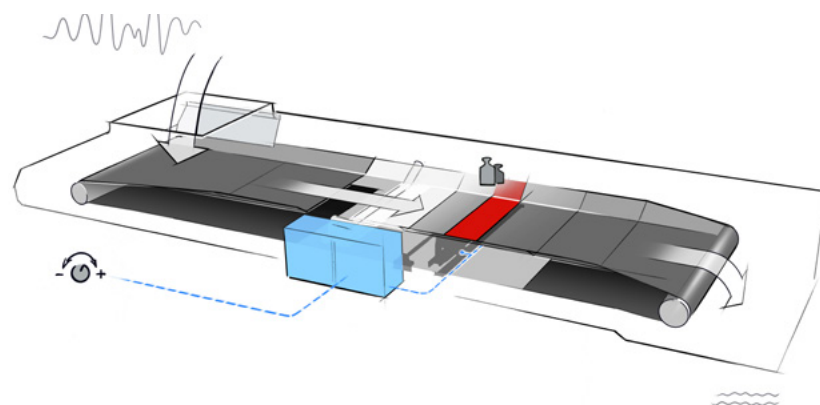
MultiFeeder®

MultiFeeder is also a bunker machine, specially designed for the linear distribution of input materials. It is space-saving and can easily be integrated into existing units. Depending on the processed material (foils/PET-bottles, dry goods, such as paper/carton or sharp-edged or hot materials), the MultiFeeder is available in four different variants: belt conveyor, chain belt conveyor, slat conveyor and push-floor.



DoseCon®

The dosing conveyor is able to perfectly dose material for a variety of different processes with the help of the integrated belt scale to ensure even loading of subsequent components. In combination with other Westeria equipment, the entire loading process can be automated right from the start. Optimal dosing is the key to efficient use of resources, for example, in fuel feeding in cement plants.

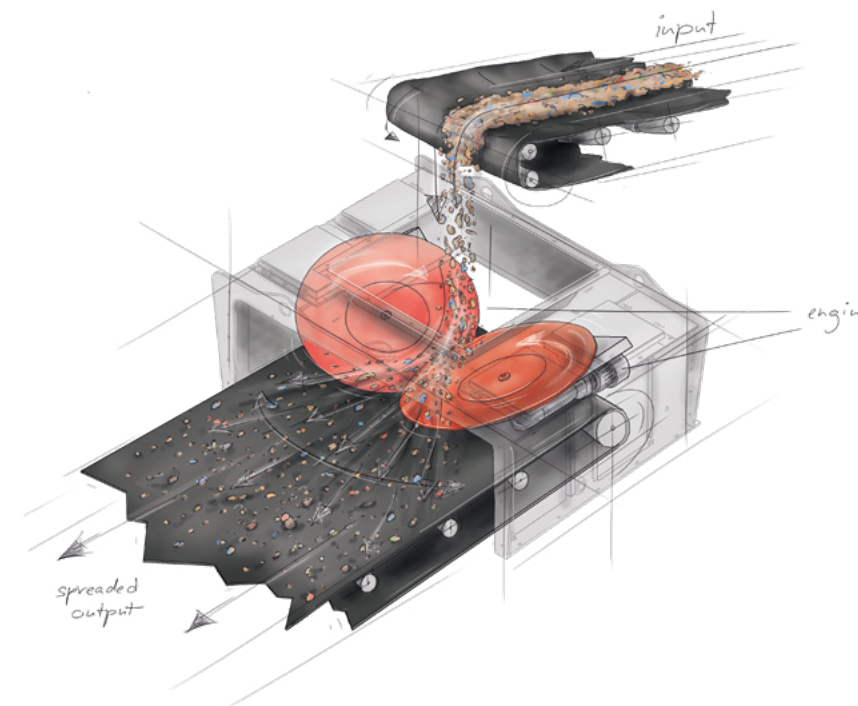


SPREADING



DiscSpreader® classic

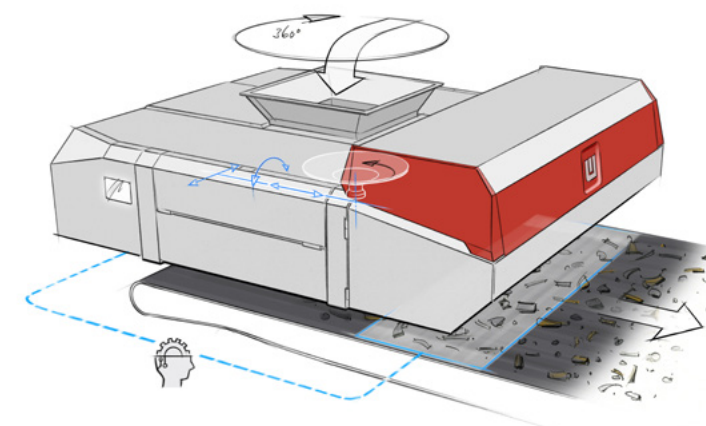
The DiscSpreader guarantees a perfect and smooth material distribution of glass, wood, compost, scrap, slag, commercial and household waste for all separation processes, also with non-linear material feeding. No matter if NIR, Eddy Current, ballistic separator or windsifter, the Westeria's DiscSpreader is always the perfect device to distribute the material flow over an even width. Due to its extremely compact design, Westeria's patented DiscSpreader system only need little space and offer maximum efficiency. It can be directly mounted into a conveyor belt.



DiscSpreader® automove

Our latest development is an AI-controlled DiscSpreader that gets by with only one distribution disc. Our AI controls the orientation automatically and thus ensures optimal distribution. If the material composition changes, the self-learning algorithm readjusts the orientation.

The always optimal belt distribution brings real added value by significantly increasing the efficiency of downstream sorting aggregates, which are often very costly.





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