Technical data

BASE

The input material is placed on the paddles of the machine. Due to the oscillating movement of the paddles, the material is excited to move both in horizontal direction (conveying direction) and in vertical direction (separation of jumping and non-jumping material). The material migrates to different outputs on the machine because of the simultaneous separation and conveying movement. Rolling and jumping material is deposited at the bottom of the machine. Flat and non-jumping material is deposited at the top of the machine. Screen meshes used on the paddles define the size of the sieving fraction.

Depending on the desired quality, the separation can be influenced by setting various machine parameters.

BASE	35	40	45	60	90	120
Variants	L / M	L / M	L / M / H	L / M / H	L / M	L / M
Throughput (m³/h)	10-40	35-45	45-60	60-90	90-120	120-200
Useful width (m)	2,0	2,0	2,0	2,7	4,0	5,4
Length of paddles (m)	4,0	5,0	6,0			
Number of paddles	6	6	6	8	12	16
Drive power (kW)	L/M:11	L/M:11	L/M:11, H:22	L/M:11, H:22	L/M:22	L/M:22
Revolution (1/min)	L: 195, M: 185, H: 180 (adjustable)					
Angle (°)	12-19					
Control cabinet (Control)	o	o	o	o	o	o
Fieldbus	o	o	o	o	o	o
Hydraulic angle adjustment	o	o	o	o	o	o
Automatic central lubrication	●	●	●	●	●	●
Sieve lattice	rectangle/round: 20-100					
Covering	o	o	o	o	o	o

* Throughput can vary depending on the material, material properties, moisture and composition. All values are approximate.
●: Included; o: Optional Accessories
All values are approximate. Technical modifications reserved.

Ballistic Separator

BASE

B35 B40 B45 B60 B90 B120

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H2PRO

Our best innovations.

Three sorting criteria „in one sweep”: At the beginning of the work process the most diverse types of material are presented together. One work process later, small and large, flat and rolling, heavy and light materials are separated from each other. The separation process takes place in only one step!
Transported one sloping level upwards, they obey a ballistic trajectory or downhill slope force: rolling and rigid compounds leave the machine at the front side, labile materials move over the incline at the back and fine materials are screened out to measure.
Our ballistic separaters series **BASE** processes light packaging (LVP, DSD material), household and commercial waste as well as construction and demolition waste.

A wide range of machine types and sizes is available. With this wide range of variants, we have the matching machine for every application.

There are 3 different series available:

BASE L (Light)

The standard variant BASE L is suitable, among others, for the separation of packaging waste (LVP / DSD), single stream, PET bottles and plastic fractions.

BASE M (Medium)

The reinforced version BASE M is suitable, among others, for the separation of abrasive and damp materials such as household waste, organic waste and industrial waste.

BASE H (Heavy)

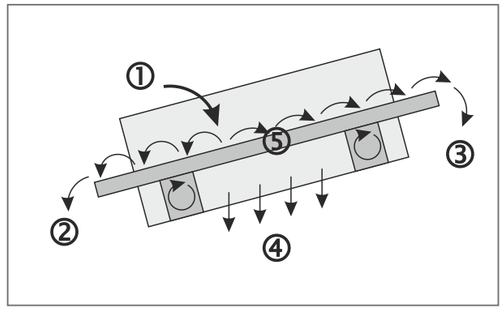
The heavy version BASE H is designed for the heaviest applications. The robust design allows the use with heavy industrial and commercial waste, construction and demolition waste as well as all other abrasive materials.

Different machine widths and lengths are available in all series. This enables the adaptation to the quantity to be processed.

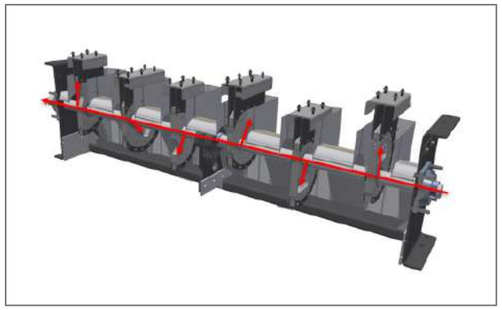
With the **BASE L**, packaging and household-relasted waste materials are separated into three fractions. The 3D-fraction usually consists of dimensionally stable plastics and bottles. The 2D-fraction contains all flat and labile plastics and papers. The sieve fraction in the range between 20 - 100 mm contains the residual materials and small impurities.

With the **BASE M**, household and light commercial waste are separated. The 3D-fraction consists of heavy parts such as bottles, wood, dimensionally stable plastics and stones. Light materials, such as textiles, foils and papers, are in the 2D fraction. Inert materials and impurities between 0 and 100 mm are separated out via the sieve.

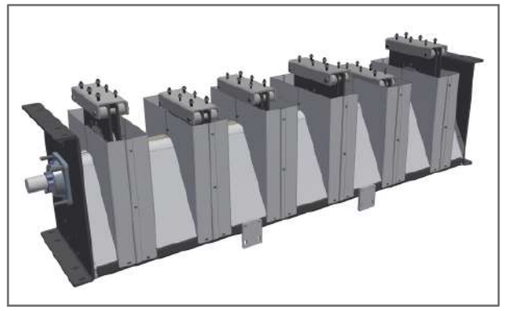
With the **BASE H**, heavy industrial and commercial waste as well as construction and demolition waste up to a unit weight of 30 kg are separated. Stones, wood and other dimensionally stable parts are separated in the heavy fraction. Light materials such as foils, insulating materials and textiles are transported to the 2D fraction. Inert materials and impurities between 0 and 100 mm are separated out via the sieve.



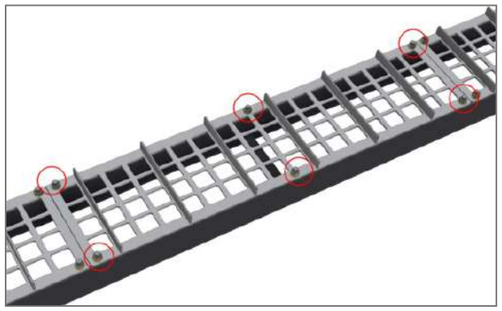
1: Input material
2: 3D-fraction (heavy fraction)
3: 2D-fraction (light fraction)
4: Sieve fraction (fine fraction)
5: Paddles



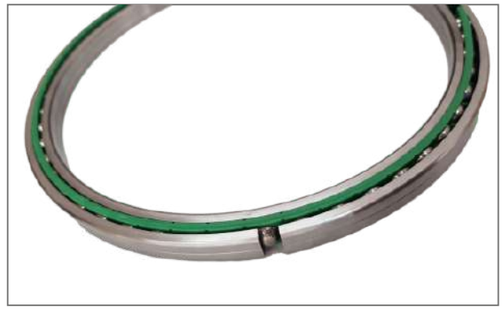
With the new Inline-lubrication-System, time-consuming lubrication processes are a thing of the past. The lubrication is done by the crankshaft axis. Special distributors ensure a reliable and uniform grease supply of each bearing.



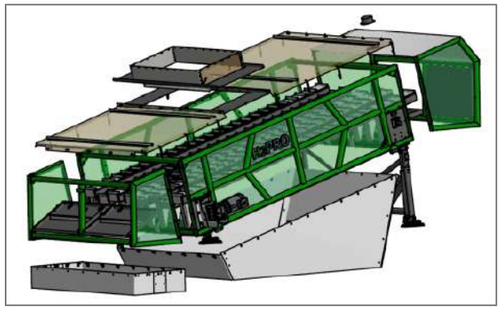
The completely enclosed crankshaft with integrated central lubrication achieves maximum ease of maintenance and the longest service life on the market. By developing the encapsulation of all rotating parts, the cleaning and maintenance effort is minimized.



With the new quick-change system, cleaning times are reduced to a minimum. Cleaning can be conveniently done outside the machine. Depending on requirements, either only partially, a whole paddle or the entire machine.



The latest Split-Bearing-Technology exceeds all known techniques in terms of robustness, load capacity, lifetime and ease of maintenance. This guarantees an unsurpassed durability and thus low operating costs.



The modular design of the BASE enables the machine to be adapted to almost any application and installation situation. The basic machine with adaptable options allow an optimal integration to the higher-level system.