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BRT_Product brochure_2022/05/01_Version1

Opening, Dosing and Sorting Systems, Mixing and Conditioning Units, Stationary Shredders

f-e.de

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1. All specifications, descriptions and illustrations are subject to change without prior notice.
2. Illustrations and descriptions may include options which are not part of the standard equipment.

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BAG OPENER BO 13 | BO 17 | BO 23

BAG OPENER

The economical alternative to shredding technology. The BRT HARTNER Bag Opener **BO** with feed hopper buffers, opens and empties the plastic bags and transfers the metered material to subsequent sorting and treatment plants. The hopper is fed batchwise by a front loader or by grab crane. Upon request, the BRT HARTNER Bag Opener **BO** can also be provided as a basic version without feed hopper.


High bunker capacities


Effective opening system


Robust moving floor technology

- Virtually 100% opening and emptying of the plastic bags
- High opening rate of “bags within bags”
- Suitable for a wide range of material, e.g. household waste, packaging material, wastepaper, residual waste
- Protection against entaglement and wrapping of strings, tapes, wires and foils
- Loosened up and evened out material supply to the sorting process
- Low servicing and maintenance requirements
- Overcharge protection and automatic switch-off in case of blockages caused by bulky and disruptive material
- Large infeed hopper for feeding by front-end loader or by gripper

	BO 13	**BO 17**	**BO 23**
Working width	approx. 1.300 mm	approx. 1.700 mm	approx. 2.300 mm
Hopper length	up to 14.000 mm	up to 14.000 mm	up to 14.000 mm
Hopper volume min.	9 m³	12 m³	16 m³
Hopper volume max.	30 m³	40 m³	55 m³
Power requirement	17 – 36 kW	22 – 43 kW	28 – 52 kW
Total weight	10 – 16 t	12 – 18 t	16 – 22 t
Opening rate min.	95 %	95 %	95 %
Max. throughput with lightweight packaging	10 t/h	13 t/h	20 t/h
Max. throughput with MSW / household waste	24 t/h	36 t/h	50 t/h

BOS

BAG OPENER BOS 12 I BOS 18 I BOS 24

BAG OPENER FOR SMALL PLASTIC BAGS

The BRT HARTNER **BOS** Bag Opener opens and empties even small plastic waste bags and pouches. It was developed especially for the application in biowaste. After passing the **BOS** Bag Opener the foils are big enough to be screened out of the material stream. The feeding can be carried out directly into the chute of the machine.

Drum with special carriers

Adjustable counter combs

Sievable

- Virtually 100% opening and emptying even of small waste bags
- Low acquisition costs
- Extremely robust and resistant to wear
- Loosened up and evened out material supply into the sorting process
- Ready-to-connect design
- Low servicing and maintenance requirements
- Space-saving
- Silent machine operating
- Slow runner
- Especially efficient with an upstream Feed and Metering Hopper

	BOS 12	BOS 18	BOS 24
Working width	1.200 mm	1.800 mm	2.400 mm
Chute volume	2,5 m³	3,6 m³	4,4 m³
Outer length	2.700 mm	3.300 mm	3.900 mm
Outer width	2.200 mm	2.200 mm	2.200 mm
Power requirement	37 kW	45 kW	55 kW
Total weight	6 t	8 t	10 t
Opening rate min.	95 %	95 %	95 %
Max. throughput	30 m³/h	45 m³/h	60 m³/h
Max. throughput at 800 kg/m³	24 t/h	36 t/h	48 t/h

BB

BALE BREAKER BB

BALE BREAKER

The BRT HARTNER **BB** Bale Breaker serves for unraveling and loosening of press bales consisting of PET-bottles, waste paper, residual waste, plastics and numerous other recyclable materials. The Bale Breaker does not shred or crush the material, but loosens it up for effective subsequent processing.

A dynamic hold-down device ensures excellent handling of impurities and disruptive material. The bunker walls of the BRT HARTNER **BB** are designed as removable plug-in walls. This allows for individual wall elements to be removed or added. Upon request, the machine can also be delivered with a closed bunker in order to enable feeding of loose material by wheel loader as well as the feeding of bales.


Bale-breaking unit


Breaking without shredding


Plug-in side walls

- Suitable for PET-bottles, residual waste, plastic containers, waste paper, sorting residues, etc.
- Efficient opening of bales and loosening up of material
- Even and continuous material discharge
- Infinitely adjustable throughput rate
- Large feed hopper for long feeding intervals
- Ready-to connect unit with drives and electrical control system
- Freely selectable positioning of the lateral plug-in walls

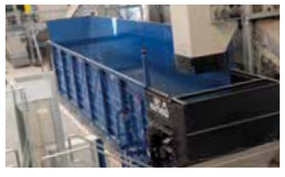
	BB 15
Working width	1.780 mm
Total height	2.500 mm
Hopper length min.	6.000 mm
Total length min.	8.400 mm
Extension in steps of	2.000 mm
Total length max.	14.400 mm
Power requirement	11,5 - 22 kW
Weight	from 11,5 t
Throughput	up to 10 t / h

FEED AND METERING HOPPER D 17 I D 23

FEED AND METERING HOPPER

BRT HARTNER D Dosing Hoppers are designed for continuous and even feeding of the most different materials and are equipped with an electrical volume flow regulation, a frequency-controlled dosing unit and a moving floor conveyor.
Feed and Metering Hoppers are preferably used for feeding of sorting and treatment plants with waste paper, packaging waste, household waste, commercial and mixed construction waste, glass, refuse derived fuel, metals and electric waste.
A wheel loader can, for example, be used to load the dosing bunker.
The bunker is available in different sizes in order to adapt to the task intervals that are specific to the operational requirements. The moving floor conveyor transports the material to the integrated dosing unit. There, the material is loosened up and presented to downstream sorting processes as an even and continuous material stream.
Optical sensors control the material height on the discharge belt. The rotational speed of the dosing unit and the velocity of the moving floor are adjusted accordingly.


Speed-controlled dosing unit


Automatic volume flow control


Heavy moving floor

- For waste paper, household waste, commercial and mixed construction waste, RDF, biowaste, etc.
- Loosened up and even material feeding to sorting and recovery units
- Access to the bunker via maintenance door with safety switch
- Entanglement protection and self-cleaning effect of the dosing drum against strings, long foils, cords and wires
- Large feed hopper for long feeding intervals
- Low maintenance and servicing requirements
- Efficiency boost of as much as 20% compared to common feeding methods
- Ready for operation construction including drives and electrical control system

	D 17	D 23
Working width	1.700 mm	2.300 mm
Number of conveyor slats	12 pieces	16 pieces
Fill level	1.900 mm	1.900 mm
Total height	2.500 mm	2.500 mm
Extension in steps of	2.000 mm	2.000 mm
Total length max.	17.900 mm	17.900 mm
Volume	14 - 47 m³	19 - 64 m³
Power requirement	11 - 33 kW	11 - 33 kW
Weight	from 10 t	from 11 t

MF

MOVING FLOOR CONVEYOR MF 17 I MF 23 I MF 29

MOVING FLOOR CONVEYER

The BRT HARTNER **MF** Moving Floor Conveyors can be manufactured in virtually every length and width in transportable units. The combination of different units allows for any size of the bunker surfaces.

Each BRT HARTNER **MF** Moving Floor consists of push-boards groups which can be moved independently from each other. For transporting of material, all groups are moved in the requested conveying direction which also moves the material. In the following step, the groups are individually drawn backwards. The material is held back on the push-boards that are standing still. Reversing the conveying direction achieves optimal bunker feeding and utilization of the hopper volume. Additional equipment such as sidewalls, completely closed hoppers or metering and discharging devices are available upon request.

Material discharge unit

Bunker volume freely selectable

Driveable design for feeding by truck

- Transport of all kinds of material, no matter if featherweight, heavyweight, wet and sticky or highly abrasive“
- Modular design for any required size
- Conveying speed infinitely adjustable
- Easy integration into existing material bunkers
- Also available as driveable heavy-duty design for direct feeding by truck
- Moving floor without rotating parts, therefore no danger of entangling
- High carrying capacity, safe against impact load
- With metering and discharge devices upon request

	MF 17	MF 23	MF 29
Working width	1.700 mm	2.300 mm	2.900 mm
Number of push boards	12 pieces	16 pieces	20 pieces
Height Moving Floor	approx. 400 mm	approx .400 mm	approx. 400 mm
Fill level max.	1.800 mm	2.400 mm	3.000 mm
Moving Floor length min.	6.500 mm	6.500 mm	6.500 mm
Total length min.	8.000 mm	8.000 mm	8.000 mm
Extension in steps of	2.000 mm	2.000 mm	2.000 mm
Power requirement	4 - 22 kW	4 - 22 kW	4 - 22 kW
Weight	from 5 t	from 6 t	from 7 t

DECOMPACTOR DC 14/2 I DC 18/2 I DC 18/3

DECOMPACTOR

DC Feed Hoppers with Decompactor are used in mechanical and biological waste treatment facilities. They are especially suitable for the intake, buffering and dosing of rotting material, digestates and organic waste.

The system consists of a sturdy feed hopper with a drag chain conveyor and a decompaction unit with two or three rollers. The rollers loosen up the material and prepare it for even transfer to subsequent plant components.

DC Feed Hoppers with Decompaction Unit consist of a heavy, sturdy and torsion-resistant sheet steel and sectional steel construction. They are adjusted to the requirements of the input material. It is possible to equip the machine with a belt conveyor instead of a drag chain conveyor.


Loosening of compost


Decompaction unit


Bunker with scraper chain conveyor

	DC 14 / 2	DC 18 / 2	DC 18 / 3
Working width	1.400 mm	1.800 mm	1.800 mm
Centre distance	7.250 / 10.000 / 12.750 mm	7.250 / 10.000 / 12.750 mm	7.250 / 10.000 / 12.750 mm
Inclination	0°	0°	0°
Decompactor shafts	2 pieces	2 pieces	3 pieces
Volume hopper	10 – 20 m³	13 – 25 m³	20 – 36 m³
Throughput	up to 200 m³/h	up to 200 m³/h	up to 200 m³/h
Power scraping chain	up to 1,1 kW	up to 1,1 kW	up to 1,1 kW
Power decompactor shafts	2 x 7,5 – 15 kW	2 or 3, x 7,5 – 15 kW	3 x 7,5 – 15 kW

DIGESTATE MIXER DM 12 I DM 20

DIGESTATE MIXER

The BRT HARTNER **DM** Digestate Mixer is a machine used for the optimal production of mixes from digestate, sewage sludge and the like on the one hand and structuring materials such as green waste, raw compost and screen overflow on the other. The system of mixing the substrates with the aid of mixing rollers in the material flow effectively prevents compaction or kneading effects and loosens up the substrate.

This is a great benefit for aerobic post-treatment of the substrate. The BRT HARTNER **DM** furthermore excels with its high throughput at great resistance against impurities, which allows for its optimal integration into the automated material flow of a system as well as into a downstream batch system.

Design for feeding by wheel loader

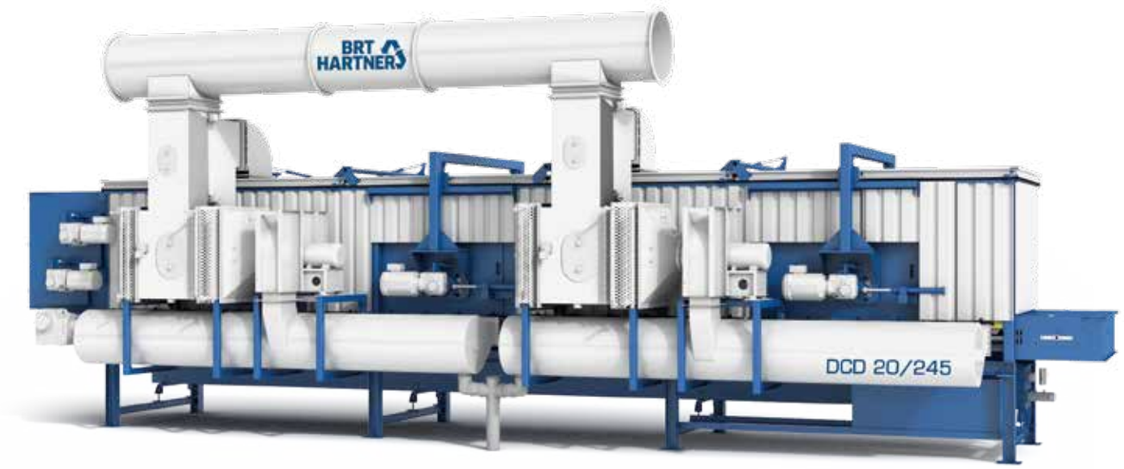
Feeding with conveyor belt

Decompaction and mixing unit

	DM 12	DM 20
Useful length	approx. 6.400 mm	approx. 11.900 mm
Useful width	approx. 1.200 mm	approx. 2.000 mm
Filling height	approx. 1.200 mm	approx. 1.700 mm
Filling volume	approx. 10 m³	approx. 40 m³
Feeding length	approx. 1.500 mm	approx. 6.800 mm
Discharge width	approx. 1.200 mm	approx. 2.000 mm
Diameter mixing roller	approx. 750 mm	approx. 1.200 mm
Diameter of mixing/discharge rollers	approx. 610 mm	approx. 610 mm
Throughput	36 – 180 m³/h	80 – 250 m³/h

DCD

DIGESTATE CONDITIONER DCD 20 / 125 I DCD 20 / 245



DIGESTATE CONDITIONER

DCD Digestate Conditioner. For perfect treatment of digestate mixtures before the aerobic treatment and for thermal drying of the material, the input substrates are mixed, homogenized and then loosened up. The pressure ventilation of the material with pre-heated air, optionally also available with circulation air and active floor heating of the closed machine, is the basis for an optimized ammoniac and water output through the exhaust air which is processed by the exhaust air treatment system.


Rotor with swivel unit


Floor heating for water output


Ventilation with pre-heated air

	DCD 20 / 125	DCD 20 / 245
Useful length	approx. 12.500 mm	approx. 24.500 mm
Filling volume	approx. 30 m³	approx. 60 m³
Useful width	approx. 2.000 mm	approx. 2.000 mm
Filling height	approx. 1.200 mm	approx. 1.200 mm
Throughput	10 - 22 m³/h	10 - 22 m³/h
Treatment time	1,25 - 3 hours	2,5 - 6 hours

BS

BALLISTIC SEPARATOR BS 45 I BS 60 I BS 90 I BS 120

BALLISTIC SEPARATOR

The BRT HARTNER **BSH** is a Ballistic Separator for packaging and household waste (single piece weight: < 10 kg). The paddles and sieve meshes are made of unalloyed construction steel.

Der BRT HARTNER **BSW** is a medium-heavy machine for household and commercial waste (single piece weight: < 20 kg). The reinforced paddles and sieve meshes are made of wear resistant steel. This ensures a long service life even with rough applications.

Four different working widths

Optional tarp cover

Straight shaft with eccentric bearing

The BRT HARTNER **BSV** is designed for heavy applications with commercial waste and mixed construction waste (single piece weight: < 30 kg). The paddles and sieve screens consist of wear-resistant steel. The lateral sheets at the paddles are additionally reinforced. Furthermore, the entire machine frame and the shafts are adapted to the increased requirements. All eccentric bearings are doubled. As opposed to the BSH and BSW versions, both shafts of the **BSV** are driven by an electric gear motor with 22 kW drive power.

	BS 45	BS 60	BS 90	BS 120
Useful width	2.070 mm	2.770 mm	4.140 mm	5.540 mm
Paddle length	6.300 mm	6.300 mm	6.300 mm	6.300 mm
Drive power	11 kW*	11 kW *	22 kW	22 kW
Throughput*	45 - 60 m³/h	60 - 90 m³/h	90 - 120 m³/h	120 - 200 m³/h
Sieve area	13 m²	17,4 m²	26 m²	34,9 m²
Paddle no.	6	8	12	16
Height - machine frame	1.500 mm	1.500 mm	1.500 mm	1.500 mm
Length - machine frame	7.100 mm	7.100 mm	7.100 mm	7.100 mm

*drive power of the BSV version 22 kW

BPS

PAPERSORTER BPS 12 | BPS 14 | BPS 16 | BPS 20 | BPS 30 | BPS 45

PAPERSORTER

The BRT HARTNER **BPS** is suitable within the range of the waste paper assortment both for the separation from paper and cardboard boxes and for the finesorting of the problematic disturbing of portions in the waste paper, here particularly also for the improvement of the deinking quality.

With up to three decks

Separation of cardboard

Separation of fines and impurities

- Sturdy machine-design for durable application
- Shaft with patented eccentric bearings
- Robust changeable bearings
- Patented adjustable screen holes
- Many types for each purpose
- Sieve-area from 10.9 m² to 43.6 m²
- Paddle width 338 mm
- 6 / 8 / 12 / 16 / 24 paddles
- Throughput from 6 t/h to 45 t/h
- Easy to maintain
- For fine and coarse screening
- High housing

	BPS 12	BPS 14	BPS 16	BPS 20	BPS 22	BPS 30	BPS 45
Model	1 Deck	1 Deck	1 Deck	2 Deck	2 Deck	2 Deck	3 Deck
Paddle width	338 mm	338 mm	338 mm	338 mm	338 mm	338 mm	338 mm
Useful width	2.070 mm	2.070 mm	2.770 mm	2.070 mm	2.070 mm	2.770 mm	2.770 mm
Paddle length	5.300 mm	6.300 mm	6.300 mm	2x 4.300 mm	2x 5.300 mm	2x 5.300 mm	3x 5.300 mm
Outlet opening	258 mm	258 mm	258 mm	258 mm	258 mm	258 mm	258 mm
Drive power	11 kW	11 kW	11 kW	22 kW	22 kW	22 kW	33 kW
Throughput	10-12 t/h	12-14 t/h	14-16 t/h	18-20 t/h	20-22 t/h	25-30 t/h	35-45 t/h
Sieve area	10,9 m²	13 m²	17,3 m²	17,6 m²	21,8 m²	29,1 m²	43,6 m²
Paddle no.	6	6	8	12	12	16	24

SD

DRUM SCREEN SD 21 | SD 25 | SD 30

DRUM SCREEN

SD Screen Drums are used to screen commercial waste, household waste and other types of material. It enables screening in several steps with different sized openings. The typical screen cut size is from 60 to 300 mm. The **SD** Screen Drums thoroughly turn and throw the material so that ideal separation rates are reached. Different entanglement protection features make this 3D screen very maintenance and cleaning friendly. The machine is available in three different diameters and a total of seven different lengths. The **SD** Screen Drum is extremely sturdy. The bearing races, radial wheels, screen sheets and other wear parts have a very long lifespan.

Screen cut (size) freely selectable

Entanglement protection with flat bars

Entanglement protection with tube sleeves

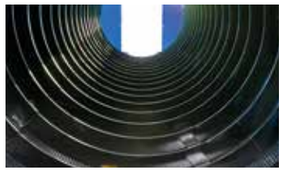
	SD 21	SD 25	SD 30
Drum diameter	2.100 mm	2.450 mm	2.950 mm
Length of sieving surface	6.000 mm	7.000 - 12.000 mm	8.000 - 14.000 mm
Total length of drum body	8.000 mm	9.000 - 14.000 mm	10.000 - 16.000 mm
Total sieving area	40 m²	54 m² - 92 m²	74 m² - 130 m²
Thickness of screen plates	8 or 10 mm	8 or 10 mm	8 or 10 mm
Drum inclination	4°	4°	4°
Number of races	4	8 or 12	8 or 12
Drive	1 x 11 kW	2 x 7,5 kW or 2 x 15 kW	2 x 7,5 kW or 2 x 15 kW
Total weight	15 t	22 - 28 t	28 - 36 t

ST

STATIONARY TROMMEL SCREEN ST 20 I ST 22

STATIONARY TROMMEL SCREEN

The **ST** Stationary Trommel Screens are a modification of the TERRA SELECT Mobile Drum Screens. These screens are designed for stationary plants and therefore electrically driven and firmly mounted onto a sub-structure. The application range is very versatile and includes compost, all kinds of soil or wood as well as household waste or metal. The screening of fine particles up to 80 mm grit size is the priority with this machine. If requested, the drum screen can also be equipped with entanglement protection or a cleaning device with a scraper. A housing made of sheet steel completes the scope of supply.



Screw conveyor internal

Screening holes up to 80 mm

Cleaning brush with scraper

	ST 20	ST 22	ST 25
Drum diameter	2.000 mm	2.200 mm	2.500 mm
Length of sieving surface	up to 8.000 mm	up to 8.000 mm	up to 8.000 mm
Total length of drum body	up to 9.000 mm	up to 9.000 mm	up to 9.000 mm
Total sieving area	up to 50 m²	up to 55 m²	63 m²
Thickness of screen plates	6 or 8 mm		
Internal screw	180 mm high and 6 mm thick		
Drum inclination	0°		
Number of radial wheels	4	4	4
Drive	11 kW	15 kW	22 kW

COARSE SCREEN SC 40 I SC 60 I SC 90

COARSE SCREEN

The **SC** Rotor screens provide a reliable and durable solution for the sorting of waste paper and cardboard that is impervious to impurities. The input material is fed from the front. The cardboard "swims" over the screen. The mixed paper is pulled down through the rotor screen discs.

Throughput capacity up to 30 t/h

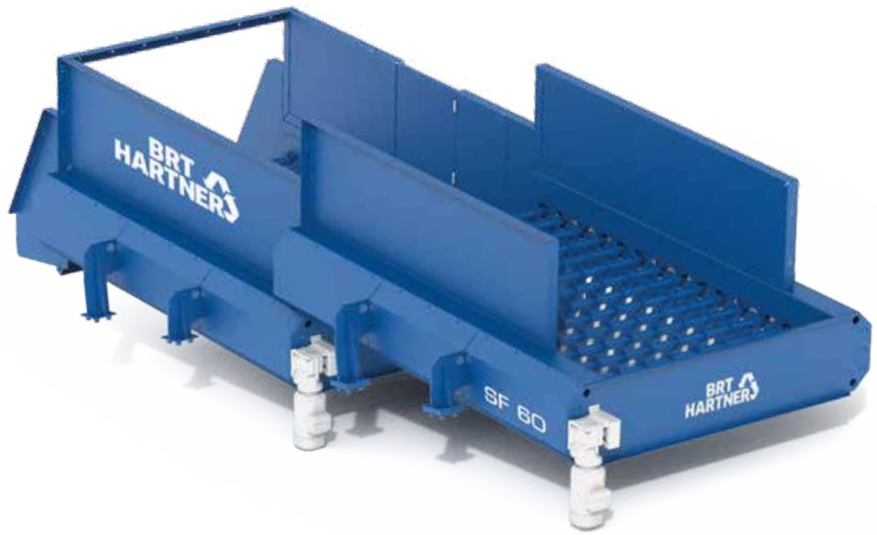
Screening of cardboard

Adjustable distances of the rotor elements

- Efficient separation of cardboard and cardboard packagings from mixed paper
- Reasonable price, long service life
- Impervious to disruptive material
- Loosened up and even material feeding to subsequent sorting
- Easily exchangeable screens discs
- Dynamic adjustment of the screen cut
- Easy to clean
- Frequency controlled speed adjustment (optional)
- Inclination adjustment available as an option

	SC 40	SC 60	SC 90
Working width	1.800 mm	1.800 mm	1.800 mm
Length	approx. 4.000 mm	approx. 6.000 mm	approx. 9.000 mm
Screen surface	approx. 6,7 m²	approx. 9,8 m²	approx. 14,7 m²
Weight	approx. 2,6 t	approx. 5,2 t	approx. 7,8 t
Screen cut	> A4	> A4	> A4
Amount of rotor elements	10	15	22
Amount of discs per element	8	8	8
Power requirement	3 kW	6 kW	9 kW
Throughput	up to 10 t/h	up to 20 t/h	up to 30 t/h

FINE SCREEN SF 40 I SF 60 I SF 90



FINE SCREEN

The **SF** Fine Screen is used for post-treatment of the mixed paper fraction. Producing a loose and even material stream, the fine screen prepares the material in an optimal way for manual, mechanical or optical sorting. The oversize grain consists mainly of valuable deinking material.

Robust screen discs made of steel

With up to three decks

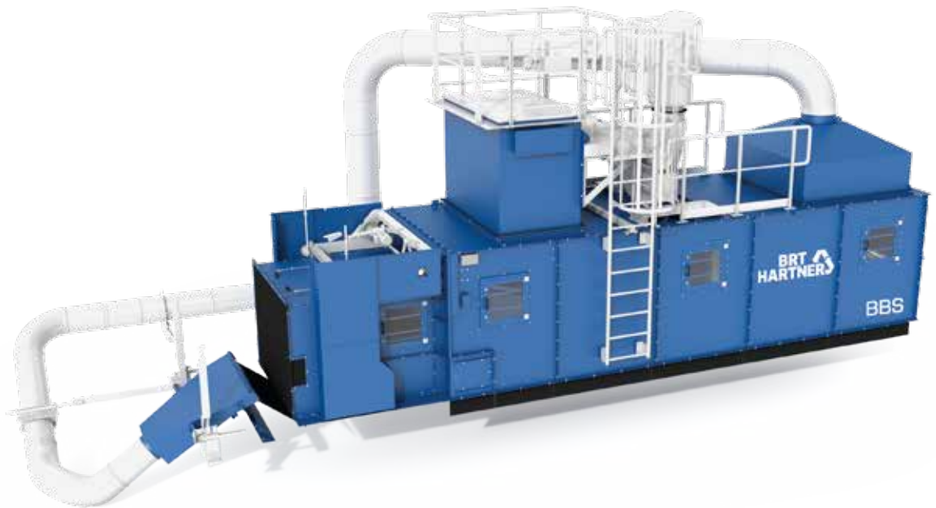
Separation of fines and impurities

- Optimal subsequent treatment of mixed paper fraction
- Efficient screening of disruptive materials and small parts
- Dynamic adjustment of the screen cut
- Reasonable price, long service life
- Loosened up and even material feeding to post-sorting
- Easy to clean
- Frequency controlled speed adjustment (optional)
- Easy integration into existing sorting plants

	SF 40	SF 60	SF 90
Working width	1.800 mm	1.800 mm	1.800 mm
Length	approx. 4.000 mm	approx. 6.000 mm	approx. 9.000 mm
Screen surface	approx. 6,7 m²	approx. 9,8 m²	approx. 14,7 m²
Weight	approx. 2,4 t	approx. 5,0 t	approx. 7,5 t
Screen cut	> 100 mm	> 100 mm	> 100 mm
Cascade	-	500 mm	500 mm
Amount of rotor elements	24	36	54
Amount of discs per element	15 - 19	15 - 19	15 - 19
Power requirement	2,2 kW	4,4 kW	6,6 kW
Throughput waste paper and cardboard	up to 7 t/h	up to 12 t/h	up to 18 t/h

BBS

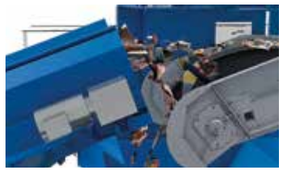
WINDSICHTER BBS



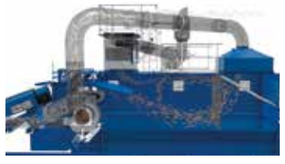
WINDSICHTER

The **BBS** Air Belt Separator classifies the input material into a lightweight and a heavyweight fraction. Suitable input for an air sifting machine for best separation results and high throughputs is free-flowing, preconditioned material with a defined particle size.

The infeed material is evenly fed onto the acceleration belt. The input material passes a nozzle in free fall that is located under the head of the acceleration belt. Very light components are blown out of the stream over the arch belt directly into the settling chamber. In the transfer area, very heavy parts fall down on a heavymaterial discharge belt. All other particles bounce against the arch belt and are also separated into light and heavy fractions by the radius and the adjustable inclination of the arch belt. In the settling chamber the light fraction is separated from the air stream and discharged by the light material discharge belt.



Adjustable arch belt



Settling chamber

Recirculation mode with filters

The separator operates in recirculation mode. A second fan extracts the dust-laden air through a filter from the settling chamber and transfers the cleaned air to the surroundings. The separated dust is supplied to the light material fraction.

- High recovery rate of light fraction
- Numerous adjustment parameters allow machine adaptation to reach an optimal separation result with different materials
- Integrated filter unit

	BBS
Working width	1.600 mm
Throughput	up to 160 m³/h
Length total	9.200 mm
Width total	2.400 mm
Height total	4.600 mm
Installed electrical power	43 kW
Arch belt	2,2 kW
Fan for nozzle	22,0 kW
Fan for underpressure generation	15,0 kW

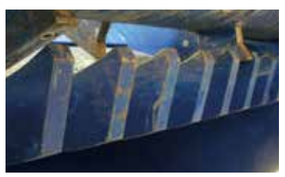
EWD

ELECTRIC WASTE DISMANTLER EWD 12 I EWD 18 I EWD 24

ELECTRIC WASTE DISMANTLER

Manual opening of plastic housings of used electrical household appliances is time-consuming and dangerous. Splitters and sharp edges, as well as the appliances' contents may cause injuries.

The **EWD** Electric Waste Dismantler executes this work automatically, safely and fast. The plastic housings are coarsely broken. The inside parts remain largely intact and can be removed safely. They are freely accessible and – as opposed to shredders – they are not destroyed. The crushed housings and metal parts are transported to subsequent sorting in a continuous material flow.


Screwed-on special carriers


Cracked plastic housings


Manual post-sorting

- Suitable for household appliances: vacuum cleaners, kitchen appliances, lawn mowers etc.
- Cracking of the plastic housings for removal of metal parts
- Turnkey design
- Metered material transfer to sorting
- No risk of injury for sorting staff
- Low dust formation
- Space-saving
- Low noise level
- Low energy consumption
- Economic purchase price
- Slow runner

	EWD 12	EWD 18	EWD 24
Working width	1.200 mm	1.800 mm	2.400 mm
Chute volume	2 m³	2 m³	2 m³
Outer length	2.700 mm	3.300 mm	3.900 mm
Outer width	2.200 mm	2.200 mm	2.200 mm
Feeding height	approx. 3.800 mm	approx. 3.800 mm	approx. 3.800 mm
Power requirement	11 kW	11 kW	15 kW
Total weight	6 t	8 t	10 t
Max. speed	18 rpm	18 rpm	18 rpm
Max. throughput	30 m³/h	45 m³/h	60 m³/h
Max. throughput with electrical appliances	2 t/h	3 t/h	4 t/h

BD

BALE DEWIRING BD

BALE DEWIRING

The **BD** Bale Dewiring machine automatically removes wire strappings from compressed bales. The bales are fed to a sturdy steel plate conveyor. The cutting device takes hold of the wires, pulls them from the bale and cuts them. Then the wires are coiled and discharged to the bottom. Employment of staff for manual bale wire cutting – which is a very dangerous task – is no longer necessary. It is recommended to operate the **BD** Bale Dewiring in combination with the well-established **BB** Bale Breaker. The complete automation of material preparation by BRT HARTNER technology saves personnel, time and costs.


Wire cutting unit


Steel plate bale conveyor


Coiled wire

- Mechanic dewiring of press bales
- Automatic opening and removing of wire strapping
- Coiling and compacting of removed bale wires
- Wire cutting without danger of injury
- For bales consisting of plastics, foils, PET bottles, paper etc.
- Self-acting adaptation to bale size
- Automatic adjustment to material density
- High availability due to wear-resistant blades
- Delivery complete with apron conveyor, all drives and electric control system
- Compact material preparation system in combination with **BB** Bale Breaker

	BD
Working width	1.400 mm
Bale dimensions max. (W x H x L)	1.200 x 1.200 x 2.500 mm
Bale weight	approx. 400 - 2.500 kg
Machine width	4.600 mm
Machine length	6.500 mm
Machine height	3.250 mm
Power requirement	15 kW
Throughput	up to 60 bales/h

PERFORATOR PS 06 | PS 12 | PS 14 | PD 06 | PD 12 | PD 14

PERFORATOR

Closed PET bottles or other plastic containers with a high density have to be perforated in order to be pressed. This is done with perforators. The **PS / PD** Perforators are available in three working lengths as single and double perforators. Knife bars made of special steel guarantee a long service life. The knives can be re-sharpened or simply changed. The sturdy machine design even allows for the use as a glass crusher.

The **PS / PD** Perforators are installed in discharge chutes of manual sorting lines. The bunkers can be used a lot more effectively as the bottles and containers are not only perforated but also reduced in volume. The perforators can also be retrofitted into the infeed chute of a press.

For universal use, a complete, semi-mobile solution is provided. It consists of a perforator, a chute with frame and a control and is set up above the infeed belt to presses or containers. The perforators can also be fed by wheel loader. The machine perforates and flattens the bottles and containers which facilitates transport on subsequent ascending conveyors.

Single perforator

Double perforator

Double perforator with chute

- Perforating rate > 95 %
- Throughput up to 160 m³/h
- Applicable for bottles and containers from 0,5 l to 5 l
- Low drive power
- Low investment costs
- Long service life
- Tools are resharpenable and exchangeable
- Reduction of the material volume of approx. 30 %
- Optionally available with electric control system

	PS 06	PS 12	PS 14	PD 06	PD 12	PD 14
Working width	600 mm	1.200 mm	1.400 mm	600 mm	1.200 mm	1.400 mm
Length	1.050 mm	1.620 mm	1.820 mm	1.050 mm	1.620 mm	1.820 mm
Width	680 mm	680 mm	680 mm	1.360 mm	1.360 mm	1.360 mm
Height	360 mm	360 mm	360 mm	360 mm	360 mm	360 mm
Weight	300 kg	600 kg	700 kg	600 kg	1.200 kg	1.400 kg
Number of trommels	1	1	1	2	2	2
Number of knife bars	8	16	16	16	32	32
Power requirement	2 kW	4 kW	4 kW	4 kW	8 kW	8 kW
Speed	60 rpm	60 rpm	60 rpm	60 rpm	60 rpm	60 rpm
Throughput	40 m³/h	70 m³/h	80 m³/h	80 m³/h	140 m³/h	160 m³/h