ARCLER

EN

STATIONARY RECYCLING MACHINES

Opening · Dosing · Mixing · Sorting

BRT HARTNER

Content

BAG OPENER
BO 13 | BO 17 | BO 23

The BRT HARTNER **BO** is the economical alternative to shredding technology. The Bag Opener 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 Bag Opener can also be provided as a basic version without feed hopper.

- 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 entanglement 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 wheel loader or by gripper

	BO 13	BO 17	BO 23
Working width approx.	1,300 mm	1,700 mm	2,300 mm
Hopper length up to	14,000 mm	14,000 mm	20,000 mm
Hopper volume min.	9 m³	12 m³	16 m³
Hopper volume max.	30 m³	40 m³	76 m³
Power requirement	17 – 36 kW	28 – 43 kW	36 – 62 kW
Total weight	10 – 16 t	12 – 18 t	16 – 22 t
Opening rate min.	95 %	95 %	95 %
Max. throughput with lightweight packaging	12 t/h	17 t/h	25 t/h
Max. throughput with MSW / household waste	27 t/h	39 t/h	50 t/h

BAG OPENER FOR SMALL PLASTIC BAGS

BOS 12 | BOS 18 | BOS 24

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 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.

	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	7 t	8 t	9 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

- 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

ELECTRIC WASTE DISMANTLER
EWD 12 | EWD 18 | EWD 24

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 BRT HARTNER **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.

	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	3,800 mm	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 electric devices	2 t/h	3 t/h	4 t/h

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

PERFORATOR

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

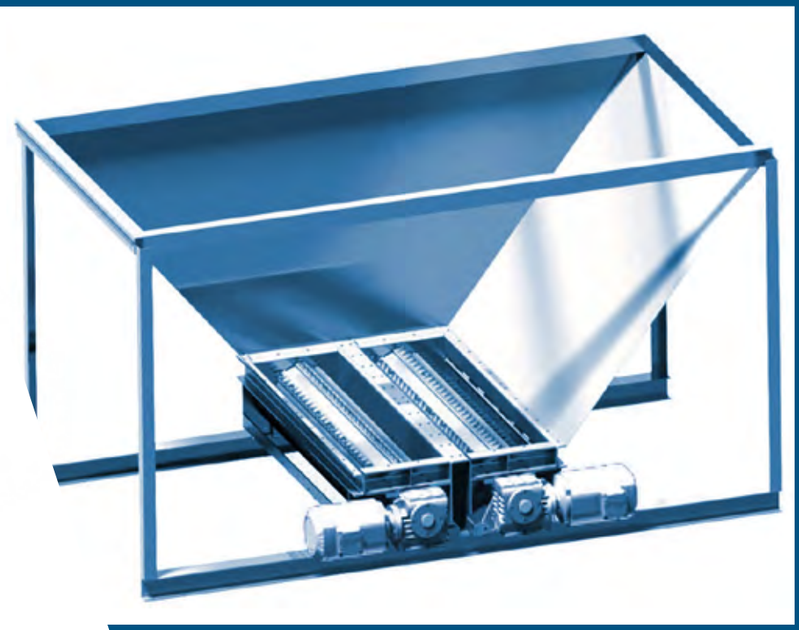
Closed PET bottles or other plastic containers with a high density have to be perforated in order to be pressed. This is done with Perforators. The BRT HARTNER **PS / PD** are available in three working lengths as single and double Perforators.

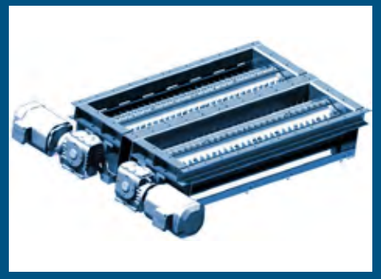
Knife bars made of special steel guarantee a long service life. The knives can be resharpened or simply changed. The sturdy machine design even allows for the use as a glass crusher.

The 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.

	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	220 kg	390 kg	430 kg	450 kg	790 kg	880 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

- 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 susceptibility to disruptive materials
- Low investment costs
- Long service life
- Tools are resharpenable and exchangeable
- Reduction of the material volume of approx. 30%
- Particularly suitable for retrofitting
- Optionally available with electric control system





BALE DEWIRER
BD

The BRT HARTNER **BD** Bale Dewirer 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. An optional rotary shear can be provided here. Employment of staff for manual bale wire cutting – which is a very dangerous task – is no longer necessary. It is recommended to operate the Bale Dewirer in combination with the well-established BRT HARTNER **BB** Bale Breaker. The complete automation of material preparation by BRT HARTNER technology saves personnel, time and costs.

	BD
Working width	1,500 mm
Bale dimensions max. (w x h x l)	1,200 x 1,200 x 1,500 mm
Bale weight approx.	400 – 2,500 kg
Machine width	5,000 mm
Machine length	6,800 mm
Machine height	3,900 mm
Power requirement	31 kW
Throughput up to	40 bales/h

- 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
- Optionally available with rotary shears for shredding of the wires
- Compact material preparation system in combination
- with BB Bale Breaker

BALE BREAKER

BB

The BRT HARTNER **BB** Bale Breaker serves for unravelling 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 Bale Breaker 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.

- Suitable for bales of 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
- Compact material preparation system in combination with BRT HARTNER **BD** Bale Dewiring Unit

	BB
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	15 – 26 kW
Weight from	10 t
Throughput up to	20 bales/h

FEED AND METERING HOPPER

D 17 | D 23

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.

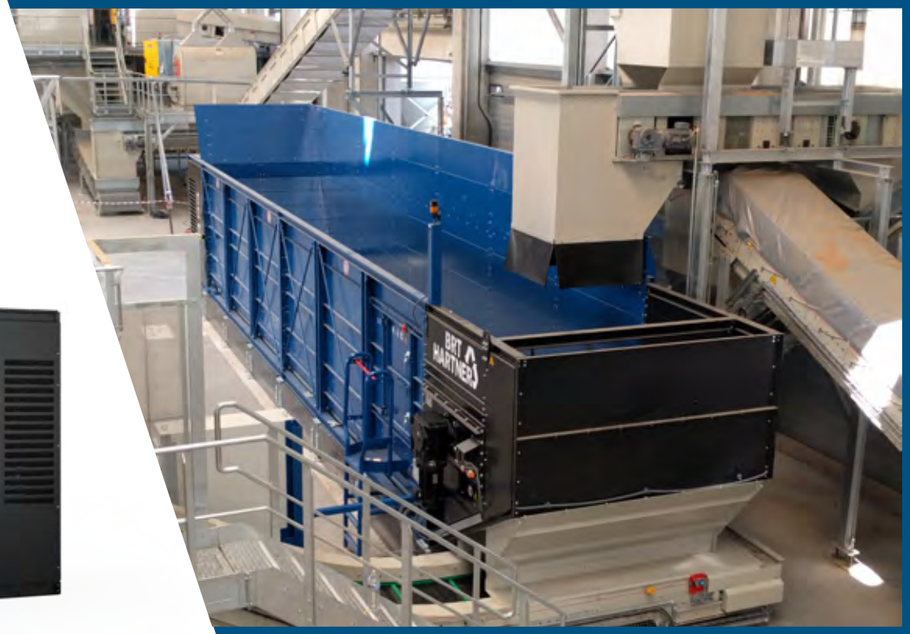
Feed and Metering Hoppers are preferably used for feeding of sorting and treatment plants with waste paper, packaging waste, household waste, commercial and mixed construction waste, glass, refuse derived fuel, metals and electric waste.

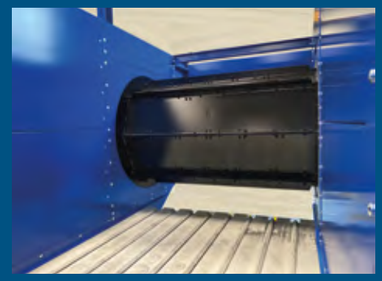
A wheel loader can, for example, be used to load the Dosing Bunker. The bunker is available in different sizes in order to adapt to the task intervals that are specific to the operational requirements. The moving floor conveyor transports the material to the integrated dosing unit. There, the material 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.

	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	23,900 mm
Volume	13 – 46 m³	18 – 90 m³
Power requirement	11 – 33 kW	11 – 33 kW
Weight from	7 t	9 t

- 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



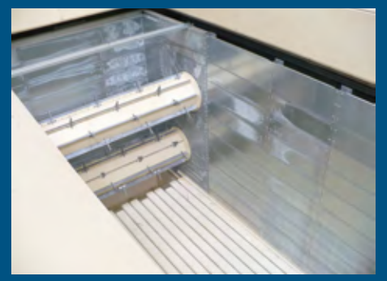


MOVING FLOOR CONVEYOR
MF 17 | MF 23 | MF 30

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.

The Moving Floors consist of push-board 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.

- 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 adjustable
- Easy integration into existing material bunkers
- Also available as truck-accessible design for direct feeding
- 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 30
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	400 mm	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 to 22 kW	4 to 22 kW	4 to 22 kW
Weight from	5 t	6 t	7 t

DECOMPACTOR
DC 14/2 | DC 18/2 | DC 18/3

BART HARTNER DC Feed Hoppers with Decompactors 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.

The 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.

- Constant monitoring of the synchronization of the scraper chain conveyor
- Either two or three decompaction rollers according to the filling height
- Pendulum suspension of the decompaction rollers to avoid blockages
- Designed for heavy, biological material with a high share of fines
- Exchangeable tools on the decompaction rollers
- Breaking up bridging and intense loosening
- Good dosing – even with uneven infeed
- Bunker construction as closed tank

	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
Decompactor shafts	2 pieces	2 pieces	3 pieces
Volume hopper	10 – 19 m³	13 – 24 m³	19 – 35 m³
Throughput up to	200 m³/h	200 m³/h	200 m³/h
Power scraping chain up to	1,1 kW	1,1 kW	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 | DM 20

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 Digestate Mixer 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.

- Unique combination of BRT HARTNER **DC** Decompactor and mixing unit of a turner
- Two versions depending on filling by conveyor belt or by wheel loader
- Scraper chain conveyor with monitoring of synchronization
- Driven swivel device for the mixing unit to increase availability
- Two, respectively three, rollers of the decompaction unit, depending on the contruction design

	DM 12	DM 20
Useful length approx.	6,400 mm	11,900 mm
Useful width approx.	1,200 mm	2,000 mm
Filling height approx.	1,200 mm	1,700 mm
Filling volume approx.	10 m³	40 m³
Feeding length approx.	1,500 mm	6,800 mm
Discharge width approx.	1,200 mm	2,000 mm
Diameter mixing roller approx.	750 mm	1,200 mm
Diameter of mixing/discharge rollers approx.	610 mm	610 mm
Throughput	36 – 180 m³/h	80 – 250 m³/h

BALLISTIC SEPARATOR

BS 30 | BS 40 | BS 45 | BS 60 | BS 90 | BS 120

Depending on the kind of waste, the BRT HARTNER **BS** Ballistic Separator is available as **BSH**, **BSW** or **BSV** in different versions.

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.

The 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.

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 BART HARTNER **BSH** and **BSW** versions, both shafts of the **BSV** are driven by an electric gear motor with 22 kW drive power.

- Different lengths and working widths for different throughput capacities
- Three machine types for three special types of application
- Unique straight shafts with individually exchangeable eccentric bearings
- Exchangeable sieve grid plates on the paddles
- Sturdy construction with easy access to maintenance points
- Central greasing of the bearings and hand-hydraulic inclination adjustment
- Numerous additional options available

	BS 30	BS 40	BS 45	BS 60	BS 90	BS 120
Useful width	1,387 mm	2,070 mm	2,070 mm	2,770 mm	4,150 mm	5,540 mm
Paddle length	5,080 mm	5,080 mm	6,300 mm	6,300 mm	6,300 mm	6,300 mm
Drive power	11 kW	11 kW	11 kW*	11 kW *	22 kW	22 kW
Throughput	30 – 35 m³/h	40 - 45 m³/h	45 - 60 m³/h	60 - 90 m³/h	90 - 120 m³/h	120 - 200 m³/h
Sieve area approx.	7 m²	11 m²	13 m²	17 m²	25 m²	34 m²
Paddle no	4	6	6	8	12	16
Height – machine frame	1,500 mm	1,500 mm	1,500 mm	1,500 mm	1,500 mm	1,500 mm
Length – machine frame	5,900 mm	5,900 mm	7,100 mm	7,100 mm	7,100 mm	7,100 mm

*drive power of the BSV version 22 kW

PAPERSORTER

BPS 12 | BPS 14 | BPS 16 | BPS 20 | BPS 22 | BPS 30 | BPS 45

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 fine sorting of the problematic disruptive material in the waste paper, here particularly also for the improvement of the deinking quality.

The Papersorter utilises the proven elements of the BRT HARTNER **BS** Ballistic Separator. By using several screen decks, it is possible to rotate the material and thus prevent undersized particles from being carried over. Foldable maintenance platforms within the machine facilitate servicing.

- Sturdy machine-design for durable application
- Shaft with patented eccentric bearings
- Robust changeable bearings
- Adjustable screen holes
- Many types for different purposes
- Screw-on screen plates
- Easy to maintain
- High housing
- For fine and coarse screening

	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	2 x 4,300 mm	2 x 5,300 mm	2 x 5,300 mm	3 x 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

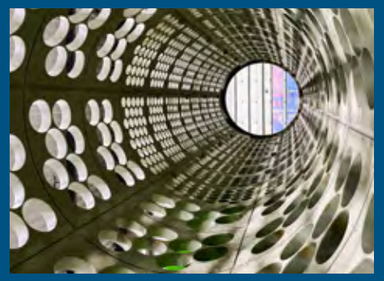
SCREEN DRUM
SD 21 | SD 25 | SD 30

BRT HARTNER **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 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 Screen Drum is extremely sturdy. The bearing races, radial wheels, screen sheets and other wear parts have a very long lifespan.

- Extremely sturdy construction design of the screen drum and the frame
- Screen hole size up to max. 300 mm, either rectangular or round
- Entanglement protection with flat bars or tube sleeves
- Screwable, exchangeable screen elements
- Driven by durable heavy duty support wheels (press-on tyres)
- With infeed chute and lighting as a standard
- Including safety switch and key interlock system
- Protection against unintentional rotation of the drum due to motor brakes
- Electric control system with control cabinet available as optional additional equipment



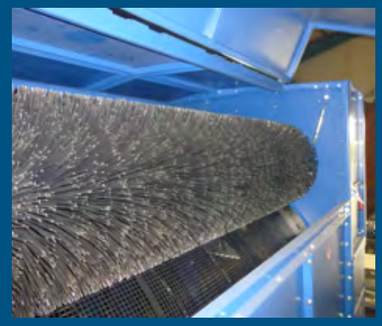
	SD 21	SD 25	SD 30
Drum diameter	2,100 mm	2,450 mm	2,950 mm
Length of sieving surface	6,000 mm	7,000 – 12,000 mm	8,000 – 14,000 mm
Total length of drum body	8,000 mm	9,000 – 14,000 mm	10,000 – 16,000 mm
Total sieving area	40 m²	54 m² – 92 m²	74 m² – 130 m²
Thickness of screen plates	8 or 10 mm	8 or 10 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

TROMMEL SCREEN
ST 20 | ST 22

The BRT HARTNER **ST** Trommel Screens are a modification of the TERRA SELECT mobile Trommel Screens. These screens are designed for stationary plants and therefore electrically driven and firmly mounted onto a substructure. 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 Trommel 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.

- Horizontal layout with two internal screw conveyors
- Hand-hydraulic operation of the upper maintenance flaps
- Central securing of the lower maintenance flaps with safety switches
- Screen hole sizes up to max. 80 mm, either rectangular or round
- Cleaning device round brush and scraper optionally available
- Entanglement protection alternatively available with flat bars
- Bolted, replaceable screen elements available as an option
- Electric control unit with switch cabinet as additional equipment

	ST 20	ST 22
Trommel diameter	2,000 mm	2,200 mm
Length of sieving surface	up to 6,500 mm	up to 6,500 mm
Total length of drum body	up to 7,500 mm	up to 7,500 mm
Total sieving area up to	53 m²	58 m²
Thickness of screen plates	6 or 8 mm	
Internal screw	180 mm high and 6 mm thick	
Trommel inclination	0°	
Number of radial wheels	4	4
Drive	11 kW	15 kW

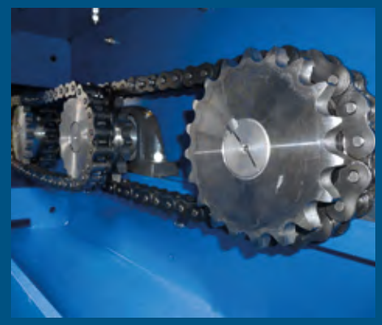


COARSE SCREEN
SC 40 | SC 60 | SC 90

BRT HARTNER **SC** Coarse 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.

- 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 screen 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	6,000 mm	9,000 mm
Screen surface approx.	6.7 m²	9.8 m²	15.3 m²
Weight approx.	3.5 t	5.1 t	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	20 t/h	30 t/h

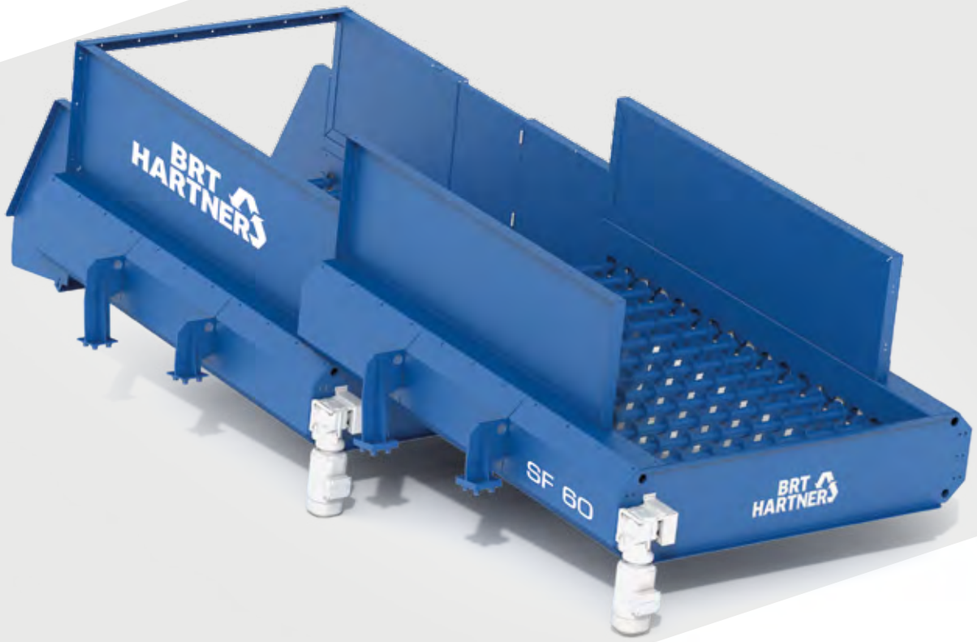


FINE SCREEN
SF 40 | SF 60 | SF 90

The BRT HARTNER **SF** Fine Rotor 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.

- 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	6,000 mm	9,000 mm
Screen surface approx.	6.7 m²	9.8 m²	14.7 m²
Weight approx.	2.9 t	4.5 t	7.0 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	12 t/h	18 t/h



STAR SCREEN
STS

The BRT HARTNER **STS** Star Screens are primarily designed for screening biological materials such as compost, wood chips or bark mulch. Additionally, they are also used for applications like bottom ash in incineration plants. The elasticity of the high-quality sieve stars allows them to be used even in moist and slightly adhesive materials. The screen cut can be changed and adjusted by selecting different screen star sizes and changing the spacing. Large pieces of material are gradually moved by the rotating screen stars across the screening surface to the discharge point. Fine particles fall through the gaps between the screening stars and the shafts. The star screen machine has a whole range of special features that make it unique and extremely efficient. The self-cleaning effect significantly reduces operating costs.

- Screen stars made of high-quality and highly elastic plastic, torsionally rigid attached to the shafts
- DURAMAX cleaning elements with durable wear-resistant coating for effective cleaning of the sieve gaps
- QuickChange-System for easy and safe replacement of the screen shafts
- Split-Speed-Method for different and even alternating speeds
- Extremely high throughputs with maximum separation quality and low cleaning effort
- By default with a PVC tarpaulin as a machine cover and with an electrical control unit with switch cabinet
- Optional machine covers made of stainless steel
- Separation quality of up to 90 % depending on the material composition and the moisture content within the material

	STS
Working width	1,250 mm
Screen deck lengths	3,500 mm, 5,300 mm or 7,500 mm
Screening area up to max.	9.4 m²
Screen cut	8 – 150 mm
Number of star screen shafts	min. 14 to max. 57 pieces
Size of screen star	Ø 166 or Ø 350 mm
Number of fingers per screen star	8 or 12
Drive power	23 to max. 29 kW
Throughput	100 to 170 m³/h

AIR BELT SEPARATOR
BBS

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

The infeed material is evenly fed onto the acceleration belt. It 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 heavy material 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.

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.

	BBS
Working width	1,600 mm
Throughput up to	160 m³/h
Length total	13,300 mm
Width total	4,300 mm
Height total	4,600 mm
Installed electrical power	43 kW
Arch belt	2.2 kW
Fan for nozzle	22 kW
Fan for underpressure generation	15 kW

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

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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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