



SPLITTER®

— Separations multitalent



SPLITTER

SPLITTER – The separation allrounder

Where other separation technologies struggle, that's where our high-performance, clog-free and wear-resistant spiral shaft separator SPLITTER really gets started. The patented screening system separates even the most difficult materials, allowing highest screening performance with a high throughput. Separation in a SPLITTER is basically based on weight, physical properties and size. Depending on the material composition, separation into up to three fractions is possible.

In detail, the superimposition of two working methods serves to ensure efficient pre-treatment and thus optimum preparation for the subsequent processes. The seemingly unidirectionally driven and supported SPLITTER® (supported on both sides within the jacket tube) combines the roller conveyor effect with the principle of the Archimedean screw. The material is transported laterally by the spiral shaft and simultaneously in the conveying direction by the roller track effect. This superposition of movements distributes the material very efficiently and effectively. The special difference to the common screening systems due to in the screen gap which ends at the open end. In this way, impurities can be discharged gently and safely. With this special design, the actual screen shafts constantly clean each other of buildup and wrappers.

Functionality

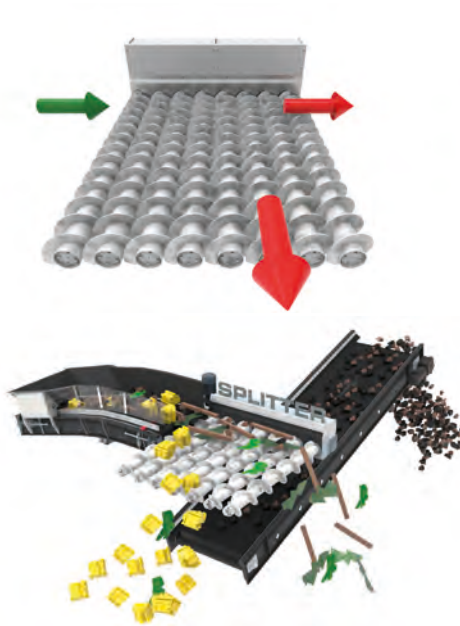


Screen deck variants

The SPLITTER® is available in three different screen deck variants and thus offers the right screening solution for almost any material. When using the FLAT screen deck, up to three useful fractions can be produced, depending on the material properties. Here, the material is separated into cubic, heavy parts which are discharged laterally, long, light and large-area parts which are discharged in the conveying direction, and fine parts which fall down through the screen deck. With the WAVE and TWIN WAVE screening decks, the material is separated into only two useful fractions. With the WAVE screening deck, the cubic, heavy and long, light materials are separated laterally, and with the TWIN WAVE screening deck, they are separated in the conveying direction. The fine fraction is screened downwards in each case.

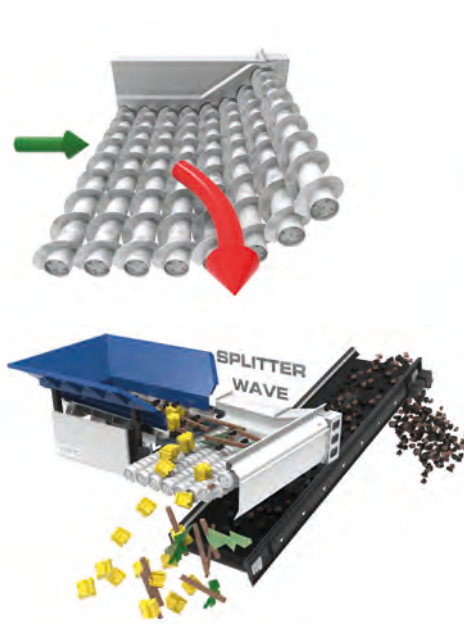
FLAT

Flat screen deck



WAVE

Screen deck curved on one side



TWIN WAVE

Screen deck curved on both sides



Your benefits when using a SPLITTER:

- ⦿ Patented system for separating the most difficult materials (e.g. unshredded screenings)
- ⦿ Low-wear technology
- ⦿ Clogging and wrapping-free screening
- ⦿ Consistent screening quality
- ⦿ High process reliability
- ⦿ Especially against interfering materials such as FE, NE, glass and minerals
- ⦿ Mobile and stationary design variants
- ⦿ Applicable with various upstream and downstream machines for further processing
- ⦿ Extremely powerful and cost-saving
- ⦿ Space-saving integration into new or existing plants
- ⦿ Metered discharge of separated materials
- ⦿ Low-noise operation

Application areas

Bulk material is made available for further processing without disturbances, in the ideal quantity and at the optimum speed. The SPLITTER can be easily integrated into existing systems or used as a stand-alone solution. It is suitable for the following applications, among others:



Waste wood



Stones & Soils



Domestic, commercial and bulky waste



Organic waste



Mixed construction waste



Lightweight packaging



Metals/scrap



Slag



Other materials, which are e.g. mixed with liquid substances

A specialist in every application. SPLITTERS are happy to master every challenge. Due to numerous adjustment options, a SPLITTER for a stationary plant is configured to perform exactly the task required of it. By adjusting the distance between the splitter shafts, a manual inclination adjustment or a speed adjustment, the SPLITTER can also be adjusted to material changes after commissioning.

Stationary plant

e. g. : for waste wood of all categories



The perfect result for a wide range of materials

The SPLITTERS of ANLAGENBAU GÜNTHER convince by their high-quality components, sophisticated technology by a low maintenance and cleaning effort. The designs are so flexible that we are able to adapt them to your space requirements, material flow and your plant or downstream equipment.

Stationary plant

for organic waste and biomass



Stationary plant

for household and commercial waste



Product overview

SPLITTER is not only available with different screen decks, but also as a stationary or mobile variant. Depending on the application, the machine can thus be perfectly adapted to the customer's requirements.

The stationary

The adapted specialists

The stationary SPLITTERS are the basis for integration into new, but also existing plants. The SPLITTER is particularly well suited as the first step for solid waste separation in a process chain to continuously supply material for downstream processes. It is also suitable for materials with high moisture or water content. They provide easy and smooth separation of input material for downstream processes. The stationary design in a modular system allows the system to be adapted exactly to customer requirements. Thus, together with you, we can find a suitable solution for almost all applications.

SPLITTER UNIT 625



SPLITTER CUBE



The mobiles

Specialists for any material

To be completely mobile and flexible, to separate the different materials at different locations before transport, this is made possible by our mobile SPLITTERS. They are suitable for almost all solid materials. Depending on the design, they are equipped with hook lift or with crawler. The Siebdeck can also be selected in size and design, so that it can be optimally adapted to the respective requirements.

SPLITTER HOOK



SPLITTER X2

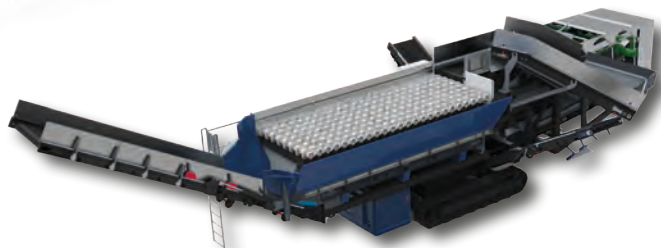


SPLITTER H3



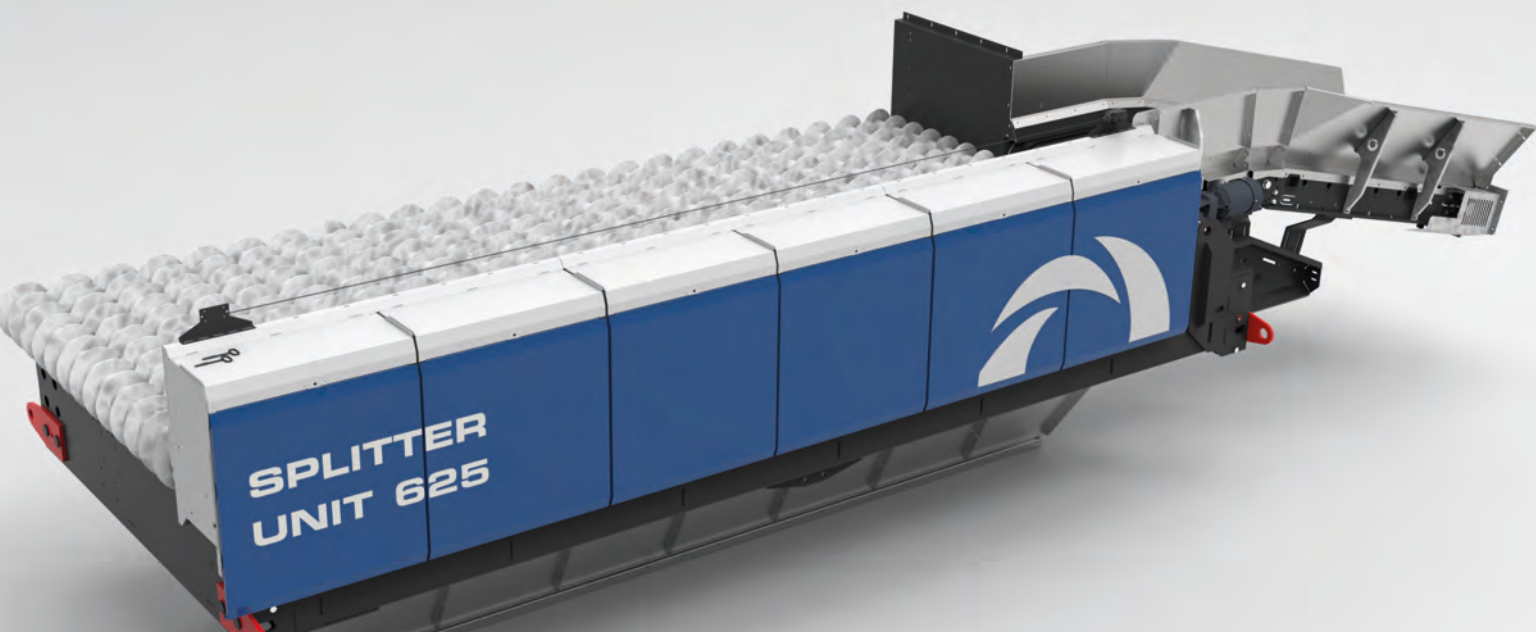
SPLITTER F2

SPLITTER F3



MULTIWASH HOOK





SPLITTER UNIT

Stationary 2/3 fraction spiral shaft screen

The stationary SPLITTER UNIT with its compact screen deck is the perfect solution for almost any material. Depending on specific material properties, a consistently high throughput can be achieved via the four length variants of the screen deck. Applicable at all points of the process chain, the SPLITTER UNIT is the all-rounder in your stationary plant. Like all SPLITTER machines, the SPLITTER UNIT is characterized by a wide range of screen deck adjustment options and virtually clog-free and wrap-free operation.

Technical Data SPLITTER UNIT

Drive	Main connection 400V 50Hz (UNIT 625: 16 kW; UNIT 525: 12 kW; UNIT 425: 12 kW; UNIT 325: 8 kW)
Material task	Accelerator belt
Screening line	L x W: UNIT 625: 6 x 2.5 m; UNIT 525: 5 x 2.5 m; UNIT 425: 4 x 2.5 m; UNIT 325: 3 x 2.5 m
Screen cut	0-60 to 0-300 mm
Screen deck	Spiral wave screen: SPLITTER FLAT or WAVE
Material discharge	Oversize: In conveying direction left (optionally right) and in conveying direction straight
Discharge belts	Plant-specific
Throughput	up to 100 t/h (depending on the material)
Weight	UNIT 625: 9.4 t; UNIT 525: 8.0 t; UNIT 425: 6.9 t; UNIT 325: 5.2 t
Dimensions	L x W x H: UNIT 625: 9.6 x 2.9 x 1.5 m; UNIT 525: 8.6 x 2.9 x 1.5 m; UNIT 425: 7.6 x 2.9 x 1.5 m; UNIT 325: 6.6 x 2.9 x 1.5 m (disassembled, all UNIT can be transported in 20 or 40" containers)
Options	Oversize length belt, oversize cross belt, fine grain belt, steel substructure, walkway, enclosure, inclination adjustment, changeable screen decks
Fields of application	Domestic, commercial and bulky waste, organic waste, waste wood, mixed construction waste, scrap metal and slag



SPLITTER CUBE

Compact stationary 2/3 fraction spiral shaft screen

The SPLITTER CUBE has been specially developed for screening in the field of channel sand reception. The machine can be supplied either in the FLAT variant as a three-fraction screen or in the TWIN WAVE variant as a two-fraction screen. For both machines different screen cuts are possible: 0 to 11 mm or 0 to 22/37 mm. The material is fed via a spiral shaft unit with closed bottom. Due to the compact size of the SPLITTER CUBE with TWIN WAVE screen deck, it can even be used as a mobile unit in plants.

Technical Data SPLITTER CUBE

Drive	Main connection 400/50Hz (10kW)
Material task	Dosing hopper: 1 m ³ Conveying unit: spiral shaft unit with closed bottom
Screening line	L x W: 3 m or 2 m x 1.2 m or 1.5 m (FLAT screen deck); 1 x 1.5 m (TWIN WAVE screen deck)
Screen cut	0 to 22/37 mm or 0 to 11 mm
Screen deck	Spiral wave screen: SPLITTER FLAT or TWIN WAVE
Material discharge	In conveying direction straight or with FLAT screen deck left (optionally right)
Discharge belts	Plant-specific
Throughput	up to 10 to 15 m ³ /h (depending on the material)
Weight	FLAT version: 4 t TWIN WAVE version: 2.8 t
Dimensions	L x W x H: 5.8 x 2.22 x 2.21 m (FLAT screen deck); 3.5 x 2.2 x 2.2 m (TWIN WAVE screen deck)
Options	Further conveying technology, sand washing plant, other options on request
Fields of application	Street refuse, sewer grit, faecal sludge, faecal matter, metal scrap (FLAT screen deck) Street refuse, sewer grit, caisson material (TWIN WAVE screen deck)



SPLITTER® HOOK

Mobile 2/3 fraction spiral shaft screen for different materials

The hook lift mobile 2/3-fraction spiral shaft separator SPLITTER® HOOK consistently continues the series of hook lift mobile machines. The SPLITTER® HOOK is equipped with a feed belt that feeds the material in a well-dosed manner onto the SPLITTER®. There it undergoes blockage-proof screening with the patented SPLITTER technology. The SPLITTER® HOOK proves to be a mobile specialist in the separation of the most difficult material streams. The separation always takes place in a process-safe manner and thus ensures a high degree of economy.

Technical data SPLITTER® HOOK

Drive	Diesel-electric drive or mains connection (CEE plug 400 V/63 A) Generator output [kVA] 30
Material task	Dosing hopper: 2,5 m ³ Feeding height: minimum 3.0 m (floor standing) 4.0 m (with support feet) Conveyor unit: conveyor belt
Screening line	L x W: 4.0 x 2.0 m/ area: 8.0 m ²
Screen cut	0...250 mm (depending in screen deck)
Screen deck	Spiral wave screen: SPLITTER FLAT or WAVE
Material discharge	Discharge height coarse grain 2.0 m 1.50 m (high floor standing) Discharge height fine grain 3.5 m 2.77 m (high floor standing)
Discharge belts	Length oversize discharge belt: 2.5 m (reversible) Length lower grain discharge belt: 11.0 m (infinitely variable inclination adjustment)
Throughput	up to 40 t/h
Weight	14.8 t (excl. options)
Dimensions	L x W x H: 7.80 x 2.55 x 2.60 m
Operation	Touch panel and radio remote control (optional)
Options	Hoax axles, overbelt magnet, track chassis, FE drum
Fields of application	Domestic waste, commercial waste, landfill debris, construction waste, scrap metal, bulky waste, green waste, waste wood, mixed construction waste, compost/bio waste



RETURNER

Mobile return unit and feed unit

The hook-lift mobile return unit RETURNER is the perfect complement to the SPLITTER HOOK. It is always used when only the undersize is desired during separation. In this case, the oversize is fed into the crushing and screening process until the desired target particle size is achieved. The RETURNER can be easily integrated into the existing process, eliminating the need for an additional wheel loader and increasing efficiency. Furthermore, the RETURNER can also be used as a simple feeding unit for direct material intake.

Technical data RETURNER

Drive	Direct connection to the mains (CEE plug 400V/32A) or co-supply by SPLITTER HOOK, the connection power is 10.2 kW in the basic configuration
Material task	2 m³ intake volume with 2° slope
Material discharge	Discharge height oversize grain at 35° = 4.2 m at 25° = 3.3 m
discharge belts	One piece, double troughed, swivel double buckling belt
Throughput	up to 100 m³/h or 50 t/h, depending on material, density and screen granulation
Weight	5.2 t
Dimesions	L x W x H: 8.30 x 2.30 x 2.60 m
Special features	Can be used as a return unit or as a feed unit
Options	Motor-driven hydraulics, diesel generator 5 kW, lifting supports, magnetic drum
Fields of application	Waste wood, green waste, biomass, commercial waste, light mixed construction waste (max. 1 t/m³), light landfill debris (max. 1 t/m³)



SPLITTER H3

Mobile 3-fraction spiral shaft screen for difficult to screen material

The hookliftmobile 3-fraction spiral shaft separator SPLITTER H3 combines the latest with field-proven technology in one machine. It is equipped with a robust and leakage-free metering hopper that feeds the material in a well-dosed manner to the downstream units. There it undergoes highly active and clog-proof pre-screening with the patented spiral shaft technology. Swiveling and inclination-adjustable one-piece discharge belts allow the material to be discharged in a versatile manner. This makes the SPLITTER H3 the expert for heavy, sticky and partly unshreddable material in the tightest of spaces.

Technical data SPLITTER H3	
Drive	Diesel-electric drive or mains connection (CEE plug 400 V/125 A); generator output [kVA] 50
Material task	Dosing hopper: 2.5 m ³ Feeding height: minimum 2.5 m (floor standing)
Screening line	1. sieving section: coarse sieve L x W: 2.5 x 1.55 m / surface: 3.8 m ² 2nd sieving section: fine sieve L x W: 5.2 x 1.2 m / area 6.2 m ²
Screen cut	Coarse fraction 0...80/100 mm Fine fraction 0...20/40 mm
Screen deck	Spiral wave screen: SPLITTER TWIN WAVE Star screen: UNISTAR
Material discharge	Discharge height oversize (high ground level) 2.3 m 1.8 m (lifting supports or track) Discharge height medium grain (high ground level) 4.2 m 3.0 m (lifting supports or track) Discharge height of undersize (high ground level) 3.2 m 2.45 m (lifting supports or track)
Discharge belts	Medium grain and fine grain: stepless tilt adjustment 0-35°. Medium grain: swivelling by 180°
Throughput	up to 120 t/h (depending on the material)
Weight	18.5 t (excl. options)
Dimensions	HOOK: L x W x H: 8.40 x 2.55 x 2.60 m Track: L x W x H: 8.40 x 2.55 x 3.30 m
Operation	Touch panel with radio remote control
Fields of application	Excavated soil interspersed with impurities; topsoil; loamy stone-earth mixtures; general construction debris; demolition materials; materials that are not screenable or are difficult to screen; sticky, adherent, coiling, or sharp-edged materials



SPLITTER X2

Mobile 2-fraction spiral shaft screen for difficult to screen material

The chain-mobile 2-fraction special separator SPLITTER X2 with its stable and robust SPLITTER TWIN WAVE screen deck is the separation expert for heavy, sticky and partly uncrushed material (stones, clay, contaminated soils for landfilling). Due to the trough-shaped design and the inclination angle adjustment, the material remains on the screen deck for a sufficiently long time, is thus cleaned of adhering impurities and separates reliably into two fractions. In addition to the production of a finished product, the SPLITTER X2 is also perfectly suited for preparing material for subsequent processes.

Technical data SPLITTER X2

Drive	Diesel-electric drive 80 kVA
Material task	Dosing hopper: 5 m ³ Feed height: minimum 2.65 m (belt feed)
Screening line	Coarse screen L x W: 3.0 x 2.5 m / Area: 7.5 m ²
Screen cut	Variant 1: 0...80/120 mm Variant 2: 0...40/55 mm
Screen deck	Spiral wave screen: SPLITTER TWIN WAVE Drive power 2 x 11 kW
Material discharge	Discharge height coarse grain 3.3 to 4.2 m Discharge height fine grain 2.8 m
Discharge belts	Oversize grain discharge belt with infinitely variable inclination adjustment Lower grain discharge belt: 3-part curved belt, foldable; optional discharge on right or left side
Throughput	up to 200 t/h (depending on the material)
Weight	32 t (excl. options)
Dimensions	L x W x H: 12.1 x 3.0 x 3.50 m
Operation	Touch panel with radio remote control
Options	Feed grate for coarse pieces, various interchangeable screen decks
Fields of application	Stones, clay, contaminated soils for landfill, excavated soil, construction debris, mixed construction waste



SPLITTER F2

Mobile 2-fraction spiral shaft screen with FE discharge

The chain-mobile SPLITTER F2 with its patented SPLITTER screening deck is the specialist for processing solid material with a density of 0.1 to 0.8 t/m³ (commercial waste, bulky waste, organic waste, landfill debris). It is ideal for installation behind a high-capacity, high-throughput shredder. With its 6-meter long, flat screen deck, the SPLITTER F2 equalizes the material and separates it into two fractions. In addition, FE separation is possible. Like all SPLITTER machines, the SPLITTER F2 is characterized by a wide range of adjustment options and a clog-free and wrap-free operation.

Technical data SPLITTER F2

Drive	Diesel electric drive 60 kVA or mains connection
Material task	Dosing hopper: 3.0 m ³ Feed height: 3.1 m Conveyor unit: Taker Belt (conveyor belt) as feeding unit
Screening line	L x W: 6.0 x 2.5 m / area: 15.0 m ²
Screen cut	Coarse fraction 0...250 mm
Screen deck	Spiral shaft screen: SPLITTER FLAT
Material discharge	Discharge height oversize 4.7 m Discharge height undersize 2.8 m
Discharge belts	Fine grain: can be folded out at 30°
Throughput	up to 60 t/h (depending on material)
Weight	27 t (excl. options)
Dimensions	L x W x H: 14.0 x 3.0 x 3.2 m
Operation	Touch panel and remote control (cable or radio) (optional)
Fields of application	Domestic waste, commercial waste, wood, waste wood, bulky waste, biowaste, mixed construction waste, landfill deconstruction, scrap metal, slag



SPLITTER F3

Mobile 3-fraction spiral shaft screen with FE and NE discharge

The chain-mobile SPLITTER F3 is the further development of the proven F2 in the F series and, with its second screening deck, excels above all in the processing of solid material with a density of up to 0.8 t/m³ (commercial waste, bulky waste). In addition, the machine offers a majority of options, such as built-in ferrous and non-ferrous separators. With three screening fractions, the FE and NE discharge and in combination with a pre-shredder, the SPLITTER F3 represents the basic functionality of a stationary plant.

Technical data SPLITTER F3

Drive	Diesel electric drive 60 kVA or mains connection
Material task	Feed belt for shredder Feeding height: minimum 3.5 m (floor standing) Conveyor unit: conveyor belt
Screening line	Coarse screen L x W: 6.0 x 2.5 m / Area: 15.0 m² Fine screen L x W: 6.0 x 1.5 m Area: 9 m²
Screen cut	Coarse fraction 0...150 mm Fine fraction 0...20 mm or 0...60 mm or 0...80 mm
Screen deck	Spiral shaft screen SPLITTER FLAT and MULTISPLITTER
Material discharge	Discharge height oversize grain 5.4 m Discharge height medium grain 3.4 m Discharge height undersize 3.1 m
Discharge belts	Oversize, medium and fine grit: Hydr. folding, no inclination adjustment, belts have an inclination of 30°.
Throughput	up to 60 t/h (depending on the material)
Weight	32 t (excl. options)
Dimensions	L x W x H: 20.2 x 10.2 x 5.9 m
Operation	Touch panel and radio remote control (optional)
Fields of application	Domestic waste, commercial waste, wood, waste wood, bulky waste



MULTIWASH HOOK

Mobile 2-fraction spiral shaft screen with integrated sand washing system

The hookliftmobile 2-fraction spiral shaft separator MULTIWASH HOOK has been developed for special applications, such as the processing of sewer material. The SPLITTER spiral shaft screen can be used to screen both dry and wet materials. The two built-in grit washers ensure that the legal requirements for achieving the loss on ignition are met. The pumped off sewage sludge can be passed through the plant directly on site. This not only saves CO₂, but also promotes the recycling process and has a positive effect on disposal and costs.

Technical data MULTIWASH HOOK

Drive	Mains connection (CEE plug 400 V/32 A) Drive power 23 kW 400V/ 50 Hz
Material task	Dosing hopper: 1.2 m ³ Feeding height: minimum 2.6 m (floor standing) Conveying unit: 2 SPLITTER shafts
Screening line	L x W: 1.5 x 1.0 m/ aerea: 1.5 m ²
Screen cut	0...15 mm and 0...11 mm
Screen deck	Spiral shaft screen: SPLITTER TWIN WAVE
Material discharge	Discharge height 2.5 m for sand discharge Discharge height 1.5 m for coarse fraction (floor standing)
Discharge belts	Material is discharged via screw conveyors
Throughput	up to 6 t/h (depending on the material)
Weight	8 t (excl. options)
Dimensions	L x W x H: 7.4 x 2.55 x 2.6 m
Operation	Touch panel and radio remote control (optional)
Special features	for 2 sand washers 2 l/s at 2 bar (washing water consumption per unit 1 l/s)
Fields of application	Street refuse, faecal sludge, sewer grit and comparable materials with a high water content



Test & Rent

Mobile machines testing or renting

You have an application and do not know whether the separation works with your material. Or you need a SPLITTER only temporarily? Both are no problem!

You can rent our SPLITTER HOOK and SPLITTER H3 for a short time. Optionally, the SPLITTER HOOK can also be rented in combination with the mobile return unit RETURNER or the mobile receiving feeder TAKER HOOK. Even if you are planning a stationary plant, a material test with our mobile machines can clarify some questions in advance.



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Competences

All competences are united at GÜNTHER

We offer you a fully comprehensive service from a single source. From the initial idea to conceptual design, manufacture and assembly, to spare parts deliveries and maintenance. Your contact person accompanies you through the project and takes care of all planning and procedures for you, both in our company and on the construction site.

Our highly qualified service team continuously ensures the smooth, efficient use of customer plants through its services and innovations and also provides lasting solutions and suggestions for the strategic further **development and success of our customers - for the entire life of the machine.**

Our services:

- Production of the designed equipment
- Technical application specific consulting
- Conceptual design and project planning
- Construction and 3D animations
- Commissioning and instruction
- Warranty handling
- Worldwide service
- Trainings
- Safety checks and UVV inspections
- Inspections/machine overhauls
- Spare parts deliveries
- After-sales service
- Repairs
- Remote maintenance
- Maintenance





Service

Plant engineering - Made in Germany

Our team in Wartenberg includes many heads from the craft sector: steel workers, painters, welders, electricians, mechanics and much more. They take care that in our production and assembly hall the machines and plants can be manufactured in best quality and delivered ex works directly to the customer.



**MADE IN
GERMANY**

Worldwide, we offer on-site assembly of the equipment at the customer's location. Our competent mechanics, electricians and mechatronic engineers work hand in hand here. Afterwards, the plant is put into operation and you receive a fully comprehensive briefing on the systems.

We do not leave you alone after the installation!

Since our young and powerful service team - also consisting of electricians, mechatronics engineers and engineers - is usually already involved in the assembly of the systems, they know the systems well and can optimally advise our customers without any further interface in the after-sales service.

Advantages of our service:

- Young, motivated team
- Concentrated expertise of electricians, mechanics, mechatronics and engineers
- Qualified personnel for UVV inspections
- Inspections with thermographic camera and oil samples
- Live demonstrations with our demonstration machines with your material
- Original spare parts with fast delivery to your construction site - also worldwide
- Calculable costs due to fixed prices for machine inspections
- Short-term availability of spare parts
- Regular maintenance and reliable spare parts supply
- Free telephone support
- Comprehensive service through in-house expertise
- Everything from a single source: concept development, design, manufacture, installation, after-sales service

