

**Doppstadt**

# SM SERIES

SMART SCREENING

TROMMEL LINE

FROM THE PIONEER  
IN SEPARATION  
TECHNOLOGY.



**Best Solution. Smart Recycling.**

[doppstadt.com](https://doppstadt.com)





## **SEPARATION TECHNOLOGY WITH FUTURE**

### **Drum screening machines from Doppstadt**

As a pioneer in the field of separation technology, Doppstadt has been setting the standards on the market for decades. Well-established know-how and continuous research and further development do not only assure the competitive edge of our drum screening machines in terms of quality. It also guarantees you optimum processing of materials as well as comprehensive services and advice. Always with the goal of being able to offer tailor-made solutions for every challenge that effectively assure you commercial results. After all, Doppstadt machines retain their value and constantly deliver optimum separation results without any downtime.

#### **SMART SCREENING WITH OUR TROMMEL LINE**

The screening systems for our Trommel Line offer you a comprehensive range of solutions for a wide variety of different recycling requirements. From our compact but powerful 518 Flex screening machine through to our top-of-the-line SM 720.2 SA, Doppstadt provides a broad range of sizes and performance parameters so that you are always able to select a solution that is appropriate for your requirements. Our drum screening machines are able to separate the most difficult materials and offer a wide variety of solutions, even for frequently changing demands. The directly driven screening drum can also be easily and quickly changed. This ensures that the machine is always able to be optimally adapted to the varying material requirements.

#### **ONE SOLUTION, MANY OPTIONS**

Doppstadt's separation systems in our SM series allow you to screen soil, compost, bark mulch, commercial waste, waste wood, demolition waste, scrap, sand, gravel and so much more. They are moreover ideal for combined use, e.g., with Doppstadt shredders and wind sifters. In their base configuration, the mobile SM series is designed as a two-fraction screening system. Thanks to their modular design, the machines can also be very easily adapted to ever-changing tasks. As a result, additional fractions are not a problem at all.

#### **UPGRADES IN SERIES**

But that is by no means all that makes Doppstadt stand out as a solution provider on the market. With our original parts, which tested over years, you are always on the safe side. The modular design makes it very easy for you to upgrade a screening machine, since our models are already configured by default for many extensions or can easily be operated as a whole using the machine's auxiliary hydraulic connection.





## **EXTENDING OUR ADVANTAGE**

### **The pioneer in separation technology**

We are a recycling technology manufacturer with more than 50 years of market experience. And it is precisely this in-depth knowledge of your requirements that we directly implement in the constant further development of our machines.

#### **EVERY DETAIL COUNTS**

First, our modular design allows you to precisely select and then later adapt the machine to your changing or increasing demands. For instance, our drum screening machine is ready for operation in less than five minutes on site thanks to the hydraulically folding discharge belts. The load-sensing material feed system under the large feed hopper ensures optimum utilization of the large screening surfaces. This ultimately results in a con-

stant high throughput and material quality! The screening drum is automatically cleaned with the aid of the rotating, hydraulically tiltable brush that is built in as a standard feature. In addition to that, the tilt of the mobile machine can be regulated to ensure a secure footing and optimum loading.

#### **EASY TO USE**

The entire system is very easy for just one person to operate thanks to the remote control with all its functions. If the screening machine has to be moved quickly on the site, the models mounted on a central axle trailer chassis are equipped with a slip-on coupling for drawbars. A pull-out drawbar is integrated in the semi-trailer versions. Of course, the model

version mounted on an offroad tracked chassis is even easier to move.

Note: All of our products come standard with a very extensive range of safety features such as access protection, emergency stop system or machine monitoring.

#### **STATE-OF-THE-ART ENGINE TECHNOLOGY**

All models are equipped with the latest diesel engine technology. This does not only provide more power through greater torque but also satisfies the requirements of the Stage V emission standard. In addition, the entire engine unit can be swivelled out to the side, ensuring optimum accessibility for any servicing.

#### **EASY MAINTENANCE AND SERVICING**

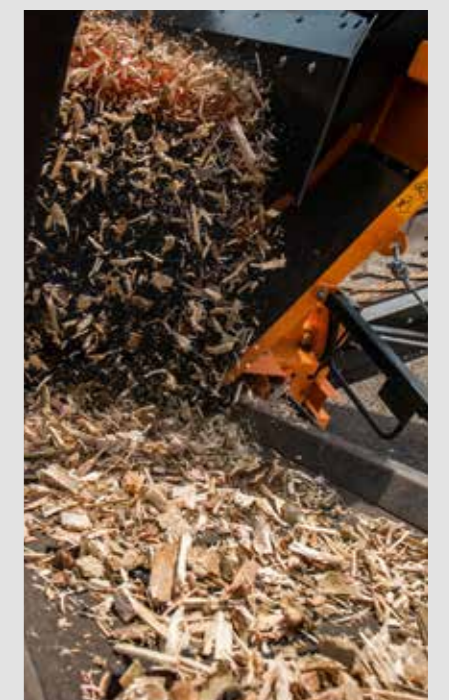
Large doors along the entire machine offer optimal access for changing the screening drum within minutes or for ensuring easy access to the drum drives for inspection, servicing or maintenance work. The use of standardized and cross-machine components also provides even greater efficiency. By doing so, it is possible to guarantee an optimum supply of spare parts and a quick replacement of components in case of servicing.

#### **SMART CONNECTED**

The new decentralized control system in conjunction with its radio system offers a high level of diagnostic capabilities via WiFi or Bluetooth interfaces, thus optimally supporting our service offering.

The use of Doppstadt's cloud-based telematics solution enables you visualized access to your machine parameters in real time: at any time, worldwide!

The machine is not only connected via GPS: Even the "analog" combination with other products such as shredders or wind sifters is possible without any problems, regardless of the manufacturer.



# MACHINE DETAILS



## SLIP-ON COUPLING

Makes it easy to move the machine using a wheel loader with ball coupling (only with machines equipped with a drawbar, already integrated in semi-trailer machines).



## FEED HOPPER

Large feed hopper with load-sensing material feed to the screening drum. This ensures that the screening surface is optimally utilized.



## DRUM DRIVE

The screening drum is powered by means of a direct drive using a sprocket wheel and a chain that is directly welded to the drum. This ensures that drum delivers high operational reliability and can be easily interchanged when needed.

## CLEANING BRUSHES

Self-cleaning of screening drum with the aid of a rotating, hydraulically tiltable brush. Optionally available: An active drive for an even more intensive cleaning performance.



## REAR AND SIDE BELT

Coarse material is discharged via the rear belt, while fines are discharged via the side belt. The belts can be equipped with a magnetic roller\* and wind sifter\* (over the rear belt). Various rear belt lengths\* and a flow distributor\* can also be selected as an option.

## HYDRAULIC SUPPORT LEGS

For ensuring that the machine is optimally levelled on grades or slopes.



## DRUM INSERTS

The screen inserts which can be interchanged quickly and easily (be it interchangeable screen drum, wire drum, mixing drum, star screen module) ensure that our drum screening machines can be flexibly adapted to almost every demand with minimal set-up times.



## SWIVELLABLE DRIVE UNIT

Optimal access for maintenance and repair of the diesel engine and hydraulic pumps. The water and oil cooler cooler is equipped with an additional dust protection filter.



## LARGE DOORS

Offer optimal access for inspections and maintenance work.

## RADIO REMOTE CONTROL\*

Enables efficient guidance and monitoring of all essential functions of the screening machine, for instance, from your wheel loader.



## CENTRAL CONTROL PANEL

Easy operation, precise adjustment and reading of machine data with the aid of a multifunctional display.



## OFFROAD TRACKED CHASSIS

Thanks to its height- and tilt-adjustable tracked chassis, the SM 620 models can also be optimally deployed on uneven terrain.

\*Optional equipment

Explanations and figures based on the SM 518.2 and SM 620.2 as an example



## MORE POSSIBILITIES INCLUDED

### Equipped for changing requirements

Operating conditions that alternate or vary from time to time are no problem for Doppstadt screening systems. The screening drum can be easily exchanged within about 20 minutes. Our large range of screening drums, offers optimal perforations and plate thickness for every application.

#### HOPPER ATTACHMENTS

Doppstadt drum screening machines are also designed to be so flexible that they can be retrofitted quickly, effectively and efficiently. For example, we also offer additional attachments for our large-volume feed hoppers, which facilitate a third separation fraction.

Obstructions (e.g., large stones) can be separated, while cohesive materials can also be broken up using the stonegrid and vibrating screen.

A star screen/hopper attachment can be utilized to screen oversized particles

before the actual separation process of preshredded material.

#### SCREENING DRUM INSERTS

Our mixing drums turn the screening system into a mixer. Adding materials in the appropriate mixing ratio ensures continuous circulation and thorough mixing in the drum.

Our interchangeable compact star screen module can also be used in place of the screening drum. The individual star shafts moving at different speeds pull apart the material to be screened. Different particle sizes can be achieved using different star decks.

If you need to free your materials for adhering surface dirt, then our washing drum conversion kit is the solution. This consists of a washing drum, built-in water distribution system, collection trough with pump sump and pump. This can

make other jobs accessible, for instance, the washing of a wide variety of materials like foil remnants, crushed rock, wood, gravel or beets.

#### WIND SIFTER ATTACHMENTS

Lightweight materials such as foils or plastic are extracted from oversized particles using a wind sifter. This optional fourth screened fraction is implemented directly over the rear discharge belt or the star deck module. Screenings cleaned in this manner can be further used in biomass or composting. Even in this case, the machine is simply driven via the auxiliary hydraulic connection.

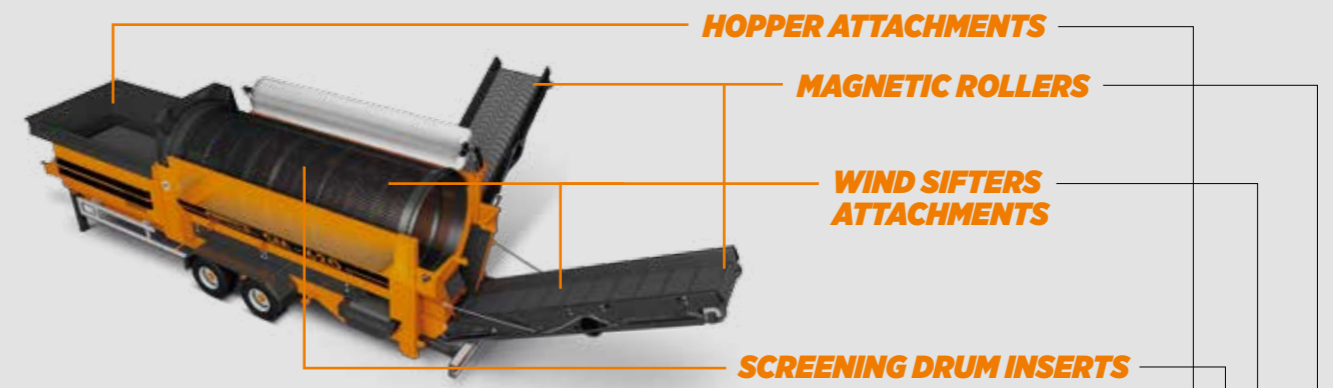
#### MAGNETIC SEPARATION

FE separation can also be configured as a fifth possible fraction with the aid of integrated magnetic rollers for both discharge belts.

## MODULAR DESIGN FOR ACCESSORIES

### The perfect solution for every application

A wide variety of materials require carefully matched tools to achieve optimum results. To this, there is a range of equipment options for you to choose from. By the way: Many of our previous models can also be adapted afterwards. **Contact us. We would be happy to advise you!**



Vibrating screen



- SM 518.2
- SM 620.2
- SM 620.2 K
- SM 620.2 SA
- SM 720.2 SA

Hopper star screen



- SM 518.2
- SM 620.2

Stonegrid



- SM 518.2
- SM 620.2
- SM 620.2 K
- SM 620.2 SA
- SM 720.2 SA

Star screen module



- SM 518.2
- SM 620.2
- SM 620.2 K
- SM 620.2 SA

Mixing drum



- SM 518.2
- SM 620.2
- SM 620.2 K
- SM 620.2 SA
- SM 720.2 SA

Washing drum conversion kit



- SM 518.2
- SM 620.2

Wind sifter (Rear conveyor)



- SM 518.2
- SM 620.2
- SM 620.2 K
- SM 620.2 SA
- SM 720.2 SA

Magnetic rollers



- available for both discharge belts and for all mobile machines of the SM series

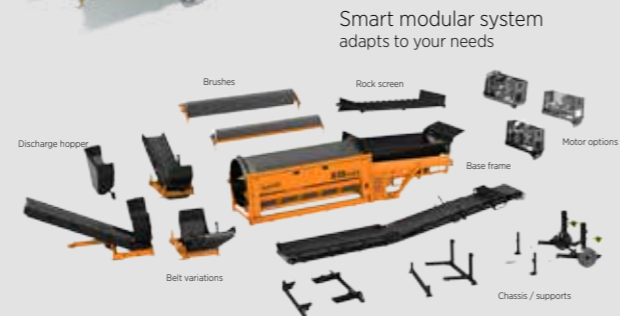
Wire drum



- SM 518.2
- SM 620.2
- SM 620.2 K
- SM 620.2 SA
- SM 720.2 SA

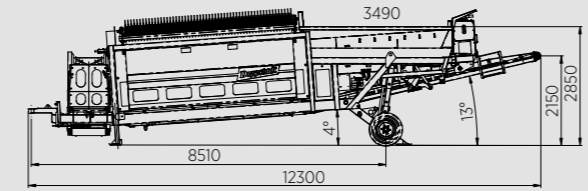
# SPECIFICATIONS OF 518 FLEX

DIMENSIONS	
Total weight	12,000 kg
Chassis	1-axle chassis or stationary configuration
ENGINE	
Engine type	Diesel hydraulic      Electro-hydraulic
Manufacturer	CAT C 2.2                  ABB
	Powerpack                  Three phase motor
Power	36.3 kW at 2,800 rpm      30 kW at 2,950 rpm
Max. torque	140 Nm at 1,800 rpm      96.9 Nm at 2,957 rpm
Emissions standard / energy-efficiency class	E3A                          IE3
Tank capacity / electrical connection	150 liters                  63 A
SCREENING DRUM	
	2 material fractions Option: 3rd fraction using rock screen
Drum length (mm)	4,700
Drum diameter (mm)	1,800
Mesh size	selectable, 3 - 130 mm
Mesh type	selectable (square perforation, alternating squares, round perforation, comb)
Material thickness	selectable
Drum speed	0 - 21 rpm
Screening area	22.5 m <sup>2</sup>
FEED HOPPER	
Feeding hopper volume	4 m <sup>3</sup>
Feed hopper W / H (mm)	3,490 / 2,850
DISCHARGE CONVEYOR	
Length axle base (mm)	Fines discharge belt front (lower belt) 10,000      Oversized particles discharge belt left-right / rear 4,000
Width (mm)	1,200                          800 / 1,000

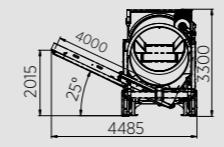


Smart modular system adapts to your needs

Working position based on 1-axle chassis configuration with optional coarse-grain discharge belt as an example (left/right)

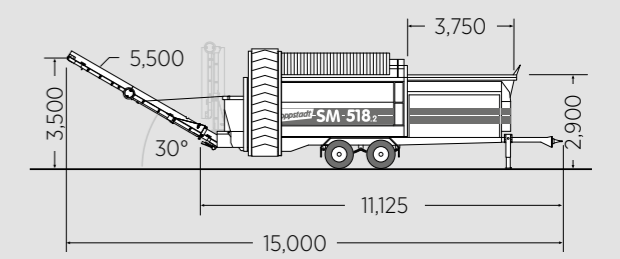


Transport dimensions:  
Length: 11,805 mm  
Width: 2,321 mm  
Height: 2,663 mm

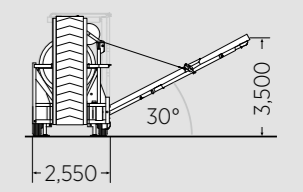


# SPECIFICATIONS OF SM 518.2

DIMENSIONS	
Total weight	17,000 kg
Chassis	2-axle central axle trailer chassis for 80 km/h, as per StVZO (Road Traffic Licensing Regulations), with ABS brake system
ENGINE	
Engine type	Diesel hydraulic
Manufacturer	DEUTZ TCD 2.9 L4 (Option: electric motor)
Power	55 kW (72 HP) at 2,200 rpm
Max. torque	300 Nm
Emissions standard	Stage V / EUROMOT III A
Tank capacity	300 l
SCREENING DRUM	
	2 material fractions, Options: 3rd fraction using rock screen or vibrating screen, 4th fraction using rear belt air separator, 5th fraction magnetic rollers
Drum length (mm)	4,700
Drum diameter (mm)	1,800
Mesh size	selectable, 3 - 150 mm
Mesh type	selectable (square perforation, alternating squares, round perforation, comb)
Material thickness	selectable
Drum speed	0 - 21 rpm
Screening area	22.5 m <sup>2</sup>
FEED HOPPER	
Feeding hopper volume	5 m <sup>3</sup>
Feed hopper W / H (mm)	3,750 / 2,900
DISCHARGE CONVEYOR	
Length (*optional) (mm)	Rear belt 5,500 (3,000 *)      Side belt 5,500
Width (mm)	800                          800
Belt speed	1.4 m/s                      2.8 m/s

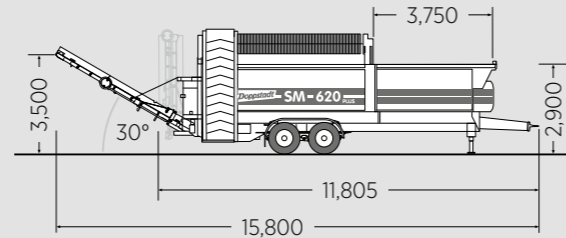


Transport dimensions:  
Length: 11,125 mm  
Width: 2,550 mm  
Height: 4,000 mm

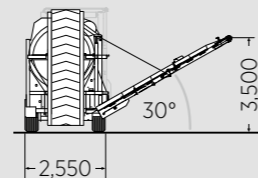


# SPECIFICATIONS OF SM 620.2

DIMENSIONS		
Total weight	19,000 kg	
Chassis	2-axle central axle trailer chassis for 80 km/h, as per StVZO (Road Traffic Licensing Regulations), with ABS brake system	
ENGINE		
Engine type	Diesel hydraulic	
Manufacturer	DEUTZ TCD 3.6 L4 (Option: electric motor)	
Power	85 kW (116 HP) at 1,800 rpm	
Max. torque	480 Nm at 1,600 rpm	
Emissions standard	Stage V / Tier 4f	
Tank capacity	300 l	
SCREENING DRUM		
	2 material fractions, Options: 3rd fraction using rock screen or vibrating screen, 4th fraction using rear belt air separator, 5th fraction magnetic rollers	
Drum length (mm)	5,500	
Drum diameter (mm)	2,000	
Mesh size	selectable, 3 - 150 mm	
Mesh type	selectable (square perforation, diamond alternating squares, round perforation, honeycomb)	
Material thickness	selectable	
Drum speed	0 - 21 rpm	
Screening area	30.2 m <sup>2</sup>	
FEED HOPPER		
Feeding hopper volume	5 m <sup>3</sup>	
Feed hopper W / H (mm)	3,750 / 2,900	
DISCHARGE CONVEYOR		
Length (*optional) (mm)	Rear belt 5,500 (3,000 *)	Side belt 5,500
Width (mm)	1,000	1,000
Belt speed	1.6 m/s	3.1 m/s

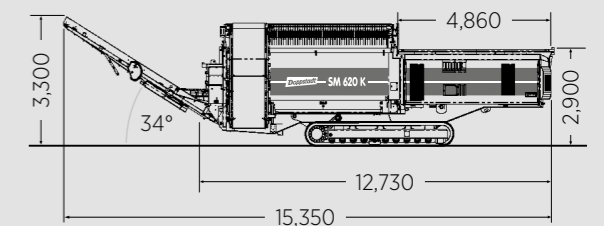


Transport dimensions:  
Length: 11,805 mm  
Width: 2,550 mm  
Height: 4,000 mm

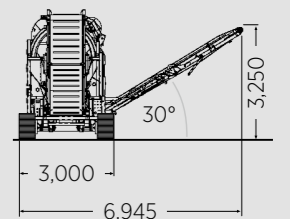


# SPECIFICATIONS OF SM 620.2 K

DIMENSIONS		
Total weight	24,000 kg	
Chassis	Tracked chassis with two travel speeds	
ENGINE		
Engine type	Diesel hydraulic	
Manufacturer	DEUTZ TCD 3.6 L4	
Power	85 kW (116 HP) at 1,800 rpm	
Max. torque	480 Nm at 1,600 rpm	
Emissions standard	Stage V / Tier 4f	
Tank capacity	400 l	
SCREENING DRUM		
	2 material fractions, Options: 3rd fraction using rock screen or vibrating screen, 4th fraction using rear belt air separator, 5th fraction magnetic rollers	
Drum length (mm)	5,500	
Drum diameter (mm)	2,000	
Mesh size	selectable, 3 - 150 mm	
Mesh type	selectable (square perforation, diamond alternating squares, round perforation, honeycomb)	
Material thickness	selectable	
Drum speed	0 - 21 rpm	
Screening area	30.2 m <sup>2</sup>	
FEED HOPPER		
Feeding hopper volume	7 m <sup>3</sup>	
Feed hopper W / H (mm)	4,860 / 2,900	
DISCHARGE CONVEYOR		
Length (*optional) (mm)	Rear belt 5,500 (3,000 *)	Side belt 5,500
Width (mm)	1,000	1,000
Belt speed	1.6 m/s	3.1 m/s

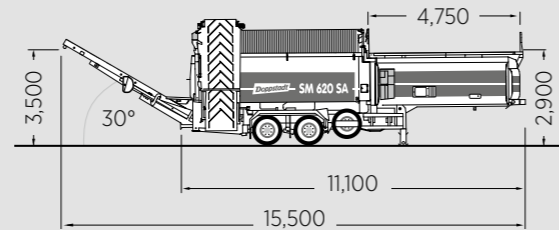


Transport dimensions:  
Length: 12,730 mm  
Width: 3,000 mm  
Height: 3,400 mm

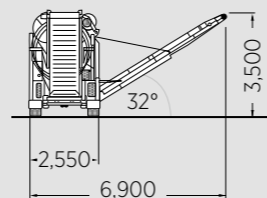


# SPECIFICATIONS OF SM 620.2 SA

DIMENSIONS	
Total weight	24,000 kg
Chassis	Semi-trailer
ENGINE	
Engine type	Diesel hydraulic
Manufacturer	DEUTZ TCD 3.6 L4 (Option: electric motor)
Power	85 kW (116 HP) at 1,800 rpm
Max. torque	480 Nm at 1,600 rpm
Emissions standard	Stage V / Tier 4f
Tank capacity	400 l
SCREENING DRUM	
	2 material fractions, Options: 3rd fraction using rock screen or vibrating screen, 4th fraction using rear belt air separator, 5th fraction magnetic rollers
Drum length (mm)	5,500
Drum diameter (mm)	2,000
Mesh size	selectable, 3 - 150 mm
Mesh type	selectable (square perforation, diamond alternating squares, round perforation, honeycomb)
Material thickness	selectable
Drum speed	0 - 21 rpm
Screening area	30.2 m <sup>2</sup>
FEED HOPPER	
Feeding hopper volume	7 m <sup>3</sup>
Feed hopper W / H (mm)	4,750 / 2,900
DISCHARGE CONVEYOR	
Length (*optional) (mm)	Rear belt 5,500 (3,000 *) Side belt 5,500
Width (mm)	1,000
Belt speed	1.6 m/s

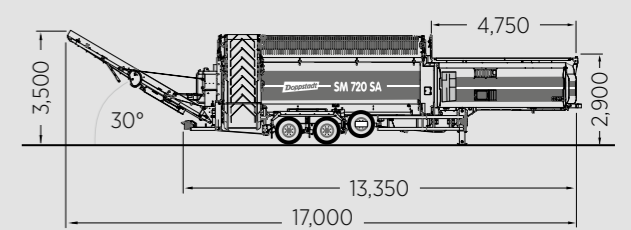


Transport dimensions:  
Length: 11,100 mm  
Width: 2,550 mm  
Height: 4,000 mm

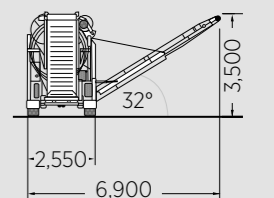


# SPECIFICATIONS OF SM 720.2 SA

DIMENSIONS	
Total weight	24,000 kg
Chassis	Semi-trailer
ENGINE	
Engine type	Diesel hydraulic
Manufacturer	DEUTZ TCD 3.6 L4 (Option: electric motor)
Power	85 kW (116 HP) at 1,800 rpm
Max. torque	480 Nm at 1,600 rpm
Emissions standard	Stage V / Tier 4f
Tank capacity	400 l
SCREENING DRUM	
	2 material fractions, Options: 3rd fraction using rock screen or vibrating screen, 4th fraction using rear belt air separator, 5th fraction magnetic rollers
Drum length (mm)	7,100
Drum diameter (mm)	2,000
Mesh size	selectable, 3 - 150 mm
Mesh type	selectable (square perforation, diamond alternating squares, round perforation, honeycomb)
Material thickness	selectable
Drum speed	0 - 24 rpm
Screening area	38.8 m <sup>2</sup>
FEED HOPPER	
Feeding hopper volume	7 m <sup>3</sup>
Feed hopper W / H (mm)	4,750 / 2,900
DISCHARGE CONVEYOR	
Length (*optional) (mm)	Rear belt 5,500 (3,000 *) Side belt 5,500
Width (mm)	1,000
Belt speed	1.6 m/s



Transport dimensions:  
Length: 13,350 mm  
Width: 2,550 mm  
Height: 4,000 mm





## Overview of your advantages!

- More than 50 years of product and market experience
- Well-established know-how, continuous research and further development
- Comprehensive services and advice
- Extensive portfolio of machines stable in value
- Load-sensing feed of material to the screening drum
- Swivelling drive unit for easy maintenance
- Quick and easy drum replacement
- Many options for adapting to a wide variety of requirements
- Optimum processing of materials and separation results
- Improved profitability, high-quality recyclable materials

More information is available at [doppstadt.de/trenntechnik](https://doppstadt.de/trenntechnik)



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