

**Doppstadt**

# 518 FLEX

TROMMEL LINE



**Best Solution. Smart Recycling.**

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





#### CLEANING BRUSH

Self-cleaning of screening drum by a moving, mechanically adjustable or hydraulically driven brush.



#### SCREENING DRUM

Use of proven screening drums of the SM 518 series. Drum change takes approx. 20 minutes.



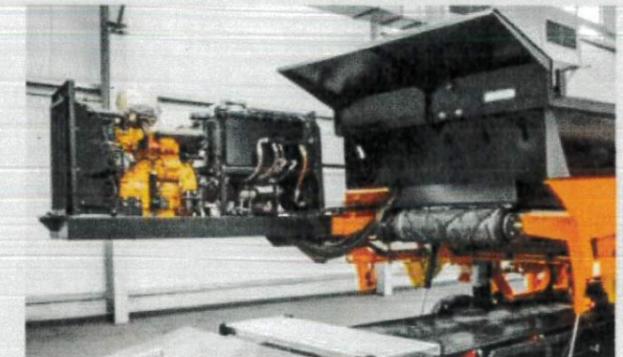
#### EASY TO COMBINE

Machine combinations can be implemented very easily and independently of manufacturers in both mobile and in stationary variant.



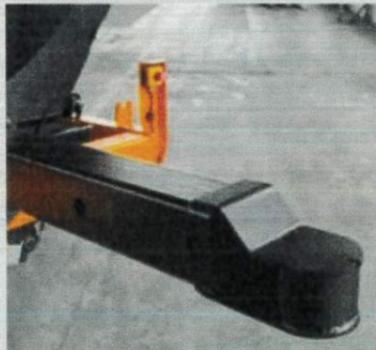
#### STONE GRID

For pre-screening of large and heavy parts. Protection of screening drum to prevent possible damage. Can be opened hydraulically, even by remote control.



#### FOLDABLE ENGINE UNIT

The engine unit swivels completely, ensuring optimal access to the engine and its components for maintenance work.



#### HITCH

The trailer hitch can be attached to a ball coupling, enabling easy movement of the machine, e.g. using a loader with a grapple.

### 518 FLEX



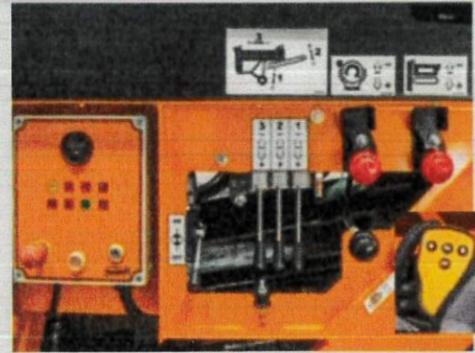
#### FINES DISCHARGE CONVEYOR

One-piece discharge conveyor can be used, as required. This is possible both for stationary and mobile applications. A magnetic pulley is available as an additional option.



#### REAR DISCHARGE AS REQUIRED

Oversized particles can be discharged via an discharge hopper, a longitudinal conveyor as well as a side discharge conveyor. The side conveyor can easily be switched to right or left-side discharge.



#### SIMPLE OPERATING CONCEPT

Operated centrally or by radio remote control. Particular importance was attached to easy handling: few electrical components and manual adjustment of speed of hopper belt, conveyor belt and drum.



## Benefits at a glance

Proven Doppstadt technology, flexible and compact.

- Modular design
- Easy to handle
- High efficiency
- Easy to maintain
- Optimal accessibility
- Wide range of screening sizes
- Adaptable as required



## **The 518 FLEX - Flexible, compact and efficient.**

The compact 518 FLEX provides the robust, powerful base for a variety of screening tasks. The machine is convincing especially smaller companies and recycling centers, where work is dictated by processing many different types of materials within tight schedules.

The 518 FLEX separates compost, green waste, waste wood, sand, gravel and many more materials with reliable

power and precision. The new modular design perfectly epitomizes the motto of the machine: „As easily adjustable to individual requirements as possible“.

The basic frame construction, a 1-axle-chassis, allows for easy machine steering on site. Thanks to the fold-out drum door the screening drum can be accessed and changed quickly and effortlessly in any given situation.

The filling level of the drum can be manually adjusted based on hopper conveyor velocity. This is why you always get the perfect ratio between material quantity and power provided.

The electrical components installed in the 518 FLEX have been reduced to the minimum, and in conjunction with its very good accessibility, this simplifies maintenance tremendously.

### **THE SCREENING RESULT**

The 518 FLEX can be used for the screening of soils, compost, green waste, waste wood, light construction waste and many other materials. The tipping stone grid allows to separate an additional third fraction. Using the screening machine in conjunction with grinders or wind sifters opens up many more opportunities.

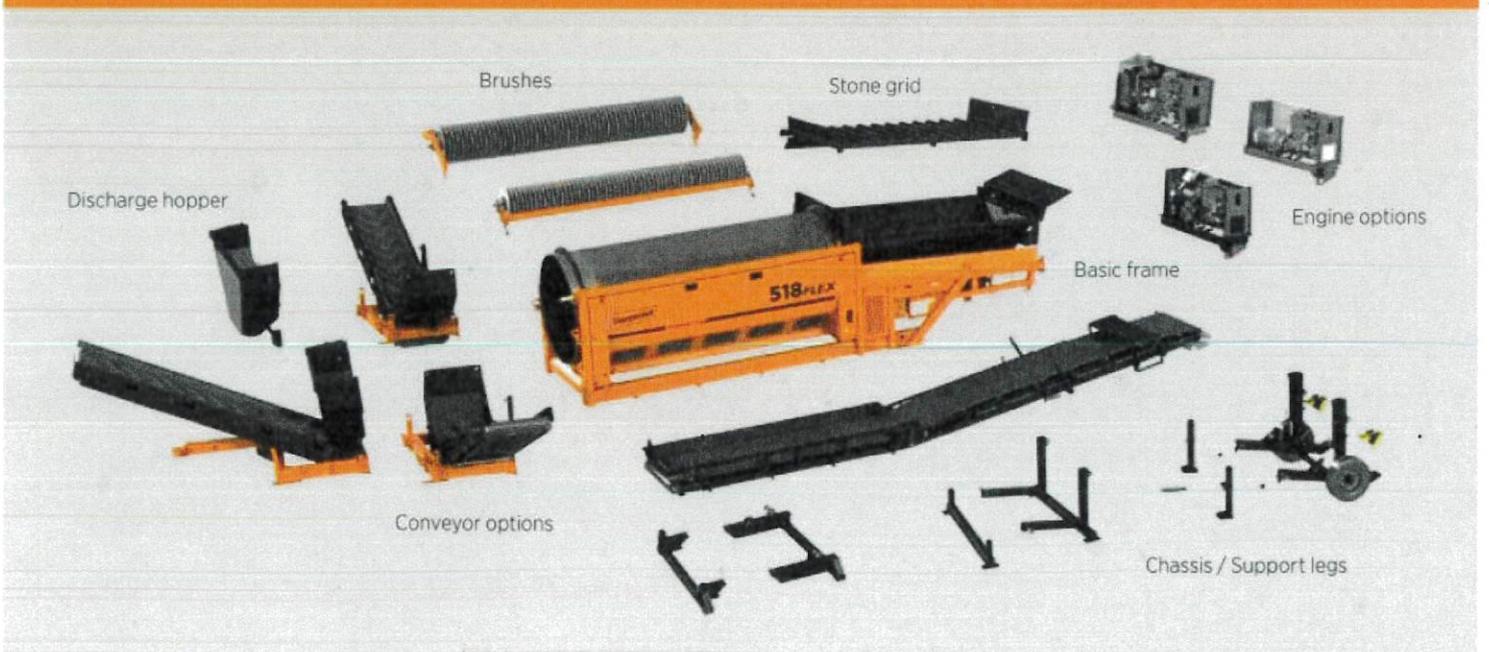


Example shown: top soil



## Smart modular design Flexible to your needs.

1. Most compact and flexible screening machine by Doppstadt
2. Ideal for customers who screen at one location or who have space restrictions
3. The machine can be optimally adapted to the respective on-site conditions
4. Setting up inside a building or moving around on site is not a problem for the 518 Flex
5. Convenient loading height for wheel loaders
6. Modular structural system enables an individual configuration of the machine and subsequent adjustments if the requirements change
7. An advantage of the 518 Flex: the proven screening drum from the SM 518 can be easily used!
8. Different drive options diesel/electric
9. Stationary design, mobile setup on a 1-axle chassis or even directly mounted on a trailer
10. Self-cleaning of drum by a mechanically adjustable brush or in case of material that is difficult to remove by a hydraulically driven brush
11. Depending on requirements, the fines can simply fall to the ground or be discharged by a conveyor
12. Oversized particles can either be discharged by a discharge hopper, to the left, right or back of the machine.
13. If very large or long parts can be expected in the material to be screened, a stone grid is recommended. This protects the drum from any damage, e.g., due to solid and very heavy stones
14. Ready for transport in just a few steps, the 518 FLEX can be hauled to anywhere in the world when using a flat bed trailer.



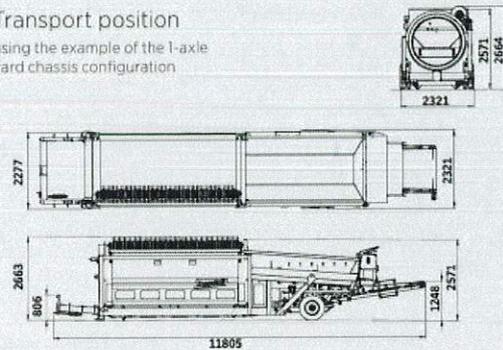
# TECHNICAL DETAILS

## 518 FLEX

Total weight	12.000 kg	
Chassis	1-axle chassis or Stationary	
Drive unit	diesel-hydraulic	electric-hydraulic
Type	CAT C 2.2 Powerpack	ABB three-phase motor
Power	36.3 kW at 2.800 rpm	30 kW at 2.950 rpm
Torque	140 Nm at 1.800 rpm	96,9 Nm at 2.957 U/min
Exhaust standard/energy efficiency grade	E3A	IE3
Fuel tank / Electrical connection	150 liters	63 A
Screen drum	2 material fractions (option for 3rd fraction using stone grid)	
Screen drum: diameter	1.800 mm	
Screen drum: length	4.700 mm	
Screening area	22.5 m <sup>2</sup>	
Mesh size	selectable, 3 - 130 mm	
Mesh type	selectable (square perforation, alternating squares, round perforation, comb)	
Drum wall thickness	selectable	
Drum speed	0 - 21 rpm	
Feed hopper: loading height	2.850 mm	
Feed hopper: width	3.490 mm	
Feed hopper: length	1.840 mm	
Hopper volume (marking gauge)	4.0 m <sup>3</sup>	
Fines discharge conveyor	width	1.200 mm
Fines discharge conveyor (lower belt)	length	10.000 mm
Oversized particle discharge conveyor (left/right)	width	800 mm
Oversized particle discharge conveyor (left/right)	length	4.000 mm
Oversized particle discharge conveyor (longitudinal direction)	width	1.000 mm
Oversized particle discharge conveyor (longitudinal direction)	length	4.000 mm

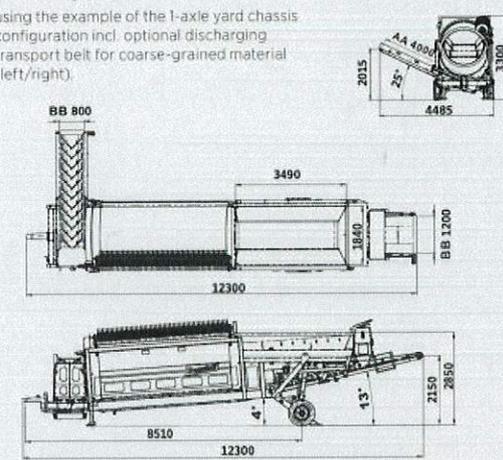
### Transport position

using the example of the 1-axle yard chassis configuration



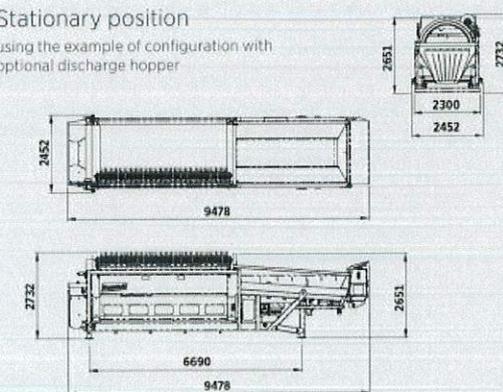
### Working position

using the example of the 1-axle yard chassis configuration incl. optional discharging transport belt for coarse-grained material (left/right)



### Stationary position

using the example of configuration with optional discharge hopper



Doppstadt Umwelttechnik GmbH

Steinbrink 13, 42555 Velbert  
Germany

Phone +49 2052 889-0

info@doppstadt.de

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