







The rotating drum can screen even the operator. The directly driven screen drum than five minutes. The standard rotating most difficult materials, with the load-sen- can be changed very easily. By means of and hydraulically controlled brush cleans sing material feed making optimum use a stonegrid or vibrating screen or with the drum automatically. The machine of the large screening surface.

The Doppstadt screens with modular design can be adjusted to special Thanks to the hydraulically controlled coupling for the drawbar is available. tasks. They are extremely mobile discharge conveyors, our drum screen A pull-out drawbar is integrated in the

fraction can be separated.

and can easily be controlled by one machines are ready to go within less version as a semi-trailer.

the star screen above the hopper, a third inclination is adjustable for stability and for optimal loading.

If the machine must be moved, a slip-on





MULTIPLE COMBINATION POSSIBILITIES

For many fields of application.

With trommels of the SM series you can screen soil, compost, bark mulch, waste wood, building rubble and much more. The screens are ideally suited for combined application e.g. with Doppstadt shredders or windsifters.

COMPOSTING, WASTE WOOD, GARBAGE AND RDF PROCESSING







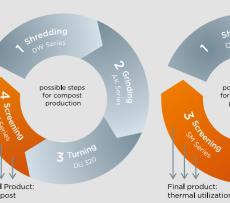








Final product: for thermal utilization





DETAILS



- SLIP-ON COUPLING

The slip-on coupling allows the machine to be transported by a wheel loader with a ball coupling (only on machines with drawbar, integrated on semi-trailers).



SWING-OUT DRIVE UNIT

Optimum access to the diesel engine and hydraulic pumps for easy maintenance and repair. The water and oil cooler is provided with an additional dust protection basket.



DRUM DRIVE

The drum with direct drive ensures operational safety and an easy replacement.



CLEANING BRUSH

Self-cleaning of the drum by rotating, hydraulically controlled brush*. Optionally with active drive for an even more aggressive cleaning performance.



REMOTE CONTROL

Efficient control and monitoring of all of the screening machine's significant functions is possible with the remote control, e.g. from the wheel loader.



SCREEN DRUM

The screen drums can be replaced quickly and easily, enabling the flexibility needed to adjust to nearly any challenge at minimal conversion times.

REAR AND SIDE CONVEYOR

The coarse fraction is discharged by the rear conveyor, the fines are discharged by the side conveyor. The conveyors can be equipped with a magnetic pulley* and with a wind sifter* (over the rear conveyor). As an option, the conveyor length* can also be selected and a flow divider* for the side and rear conveyor can be added.





CONTROL PANEL

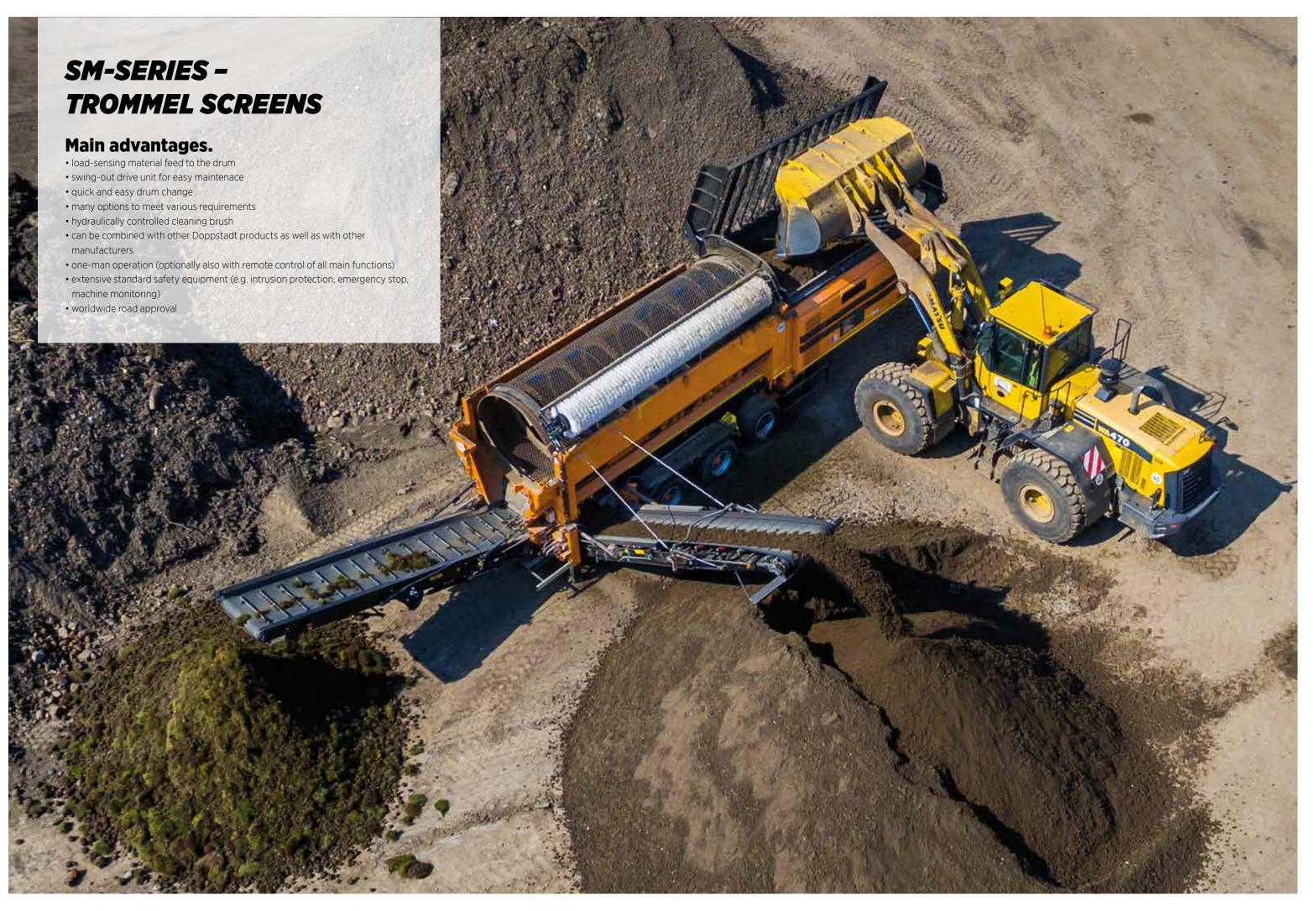
Easy operation, exact adjustment and reading of the machine data by multifunctional display.



LARGE DOORS

Optimum access for control, and maintenance work.







SM 518.2

The SM 518.2 has a screening surface of 22,5 m². The screen drum has a diameter of 1,8 m (5'11") and a length of approx. 5 m (16'5"). Optionally skeletal drums with changeable screens or a star screen module available. For different applications various mesh sizes are available.

SM 518.2	
Permissible weight	17,000 kg (37,479 lb)
Drive	Diesel engine
Туре	DEUTZ TCD 2.9 L4
Power	55 kW (75 hp) at 2,200 rpm
Drum length	4,700 mm (15'5")
Drum diameter	1,800 mm (5'11")
Transport dimensions L/W/H	11,125 / 2,550 / 4,000 mm (36'6" / 8'4" / 13'1")





SM 620 PLUS

The SM 620 Plus has a screen drum with 2 m (6'7") diameter and approx. 6 m (19'8") length. For different applications various mesh sizes are available. Screening surface 30.2 m². Alternatively a star screen module with 6 m² screen can be used.

SM 620 PLUS	
Permissible weight	19,000 kg (41,888 lb)
Drive	Diesel engine
Туре	DEUTZ TCD 3.6 L4
Power	85 kW (116 hp) at 1,800 rpm
Drum length	5,500 mm (18')
Drum diameter	2,000 mm (6'7")
Transport dimensions L/W/H	11,805 / 2,550 / 4,000 mm (38'9" / 8'4" / 13'1")





SM 620 K PLUS

The SM 620 K Plus is equipped with a crawler track unit, so it can be used without tractive unit and is applicable on rough ground thanks to its height and inclination adjustable chassis.

SM 620 K PLUS	
Total weight	24,000 kg (52,911 lb)
Drive	Diesel engine
Туре	DEUTZ TCD 3.6 L4
Power	85 kW (116 hp) at 1,800 rpm
Drum length	5,500 mm (18")
Drum diameter	2,000 mm (6'7")
Transport dimensions L/W/H	12,730 / 3,000 / 3,400 mm (41'9" / 9'1" / 11'2")





SM 620 SA PLUS

The SM 620 SA Plus is a mobile and powerful universal 2-fraction screen on a 24-t 2-axle semitrailer chassis with a more than 7 m³ hopper. The machine can optionally be used with a trommel or with a star screen insert.

SM 620 SA PLUS	
Total weight	24,000 kg (52,911 lb)
Drive	Diesel engine
Type	DEUTZ TCD 3.6 L4
Power	85 kW (116 hp) at 1,800 rpm
Drum length	5,500 mm (18")
Drum diameter	2,000 mm (6'7")
Transport dimensions L/W/H	11,100 / 2,550 / 4,000 mm (36'5" / 8'4" / 13'1")



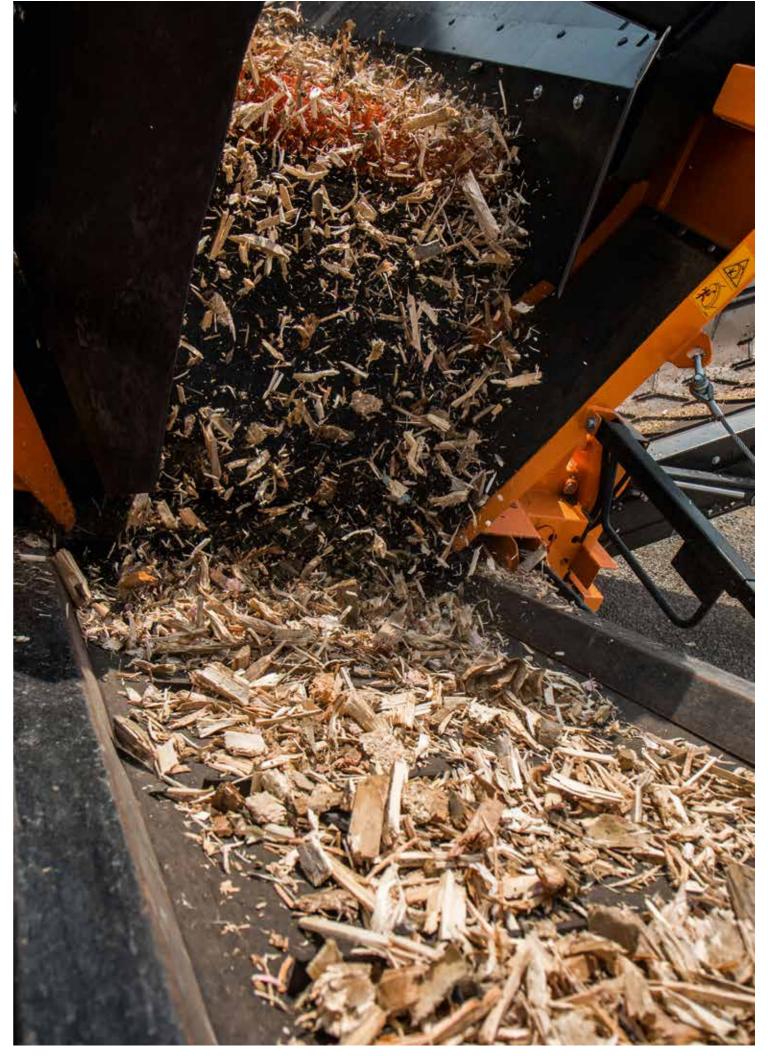


SM 720 SA PLUS

The SM 720 SA Plus has a screen drum with 2 m (6'7") diameter and approx. 7,1 m (23'4") length. For different applications various mesh sizes are available. A third fraction can be separated by using a vibrating grid or a stonegrid. Screening surface 38,8 m².

SM 720 SA PLUS	
Total weight	24,000 kg (52,911 lb)
Drive	Diesel engine
Туре	DEUTZ TCD 3.6 L4
Power	85 kW (116 hp) at 1,800 rpm
Drum length	7,100 mm (23'4")
Drum diameter	2,000 mm (6'7")
Transport dimensions L/W/H	13,350 / 2,550 / 4,000 mm (43'9" / 8'4" / 13'1")





OPTIONS FOR SCREENS



HOPPER STAR SCREEN

The hopper star screen can be mounted on the hopper of the screen. It is driven by an additional hydraulic connection at the machine. The hopper star screen separates oversize items before the actual screening of the shredded material (e.g. shredded waste wood, trunks and roots). It enables the separation of the fines and the oversize in just one path.

Available for:

- SM 518.2
- SM 620 Plus
- SM 620 K



STAR SCREEN MODULE

The star screen unit is a compact module which can be used instead of the drum. Due to different speeds of the shafts the material is loosened up and pulled apart. Different grain sizes can be reached by using different star screen decks. The screen areas according to the available series (length x width):

• SM 620 SA Plus

SM 518: 4,10 m x 1,20 m = 4,90 m² **SM 620:** 4.80 m x 1.20 m = 5.80 m²

Available for:

- SM 518.2
- SM 620 Plus
- SM 620 K



VIBRATING GRID

The vibrating grid is used for separating bulky contaminants (e.g. big rocks) and prevents damage, e.g. of the drum. The vibration automatically moves the material which is then tipped at the side of the machine. The vibration also loosens cohesive materials and leads to a better screening result. It is driven by an additional hydraulic connection at the

Available for:

- SM 518.2
- SM 620 SA Plus • SM 720 SA Plus
- SM 620 K
- SM 620 Plus



WIND SIFTER ON STAR SCREEN DECK

The windsifter is used to separate light materials from the oversize fraction. Materials such as foils, plastics, etc. can be sorted out, so that the cleaned oversize is of further use (e.g. biomass, compost, etc.). The contaminants are blown into a container. It is driven by an additional hydraulic connection at the machine.

Available for:

- SM 620 Plus
- SM 620 K
- SM 620 SA Plus



The stonegrid enables the separation of bulky contaminants (e.g. big rocks) and prevents damage, e.g. of the drum. The stonegrid is tilted hydraulically via remote control. The material is tipped at the left side of the machine.



WIND SIFTER (REAR CONVEYOR)

The windsifter separates light materials from the oversize fraction. Materials such as foils, plastics, etc. can be sorted out, so that the cleaned oversize is of further use (e.g. biomass, compost, etc.).

The windsifter is mounted on the rear conveyor. The contaminants are blown into a container. It is driven by an additional hydraulic connection at the machine.

Available for:

- SM 518.2 • SM 620 SA Plus
- SM 620 Plus
- SM 620 K

- SM 720 SA Plus

Available for:

- SM 518.2
- SM 620 SA Plus



MIXING DRUM

The mixing drum turns the screening machine into a mixer. The feed materials are loaded into the hopper according to their desired ratio. For stationary application Input materials are continuously fed directly into the drum. Inside the drum intensive continuous overturning and mixing takes place, particularly suitable for loose bulk materials or those that are not mixable by kneading due to a high content in structure.

Available for:

- SM 518.2
- SM 620 SA Plus
- SM 620 Plus • SM 720 SA Plus
- SM 620 K

• SM 620 Plus

- SM 720 SA Plus
- SM 620 K



CONVERSION KIT WASHING DRUM

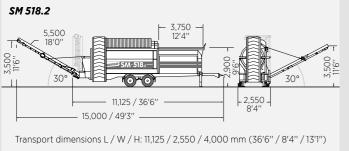
The conversion kit consists of a washing drum, water distribution and a catch basin with sump and pump. Water is applied to the feed material and then mixed intensively in the first closed part of the drum. Adhesive contaminants are thus rubbed of the surface and discharged in the second perforated part of the drum together with the process water.

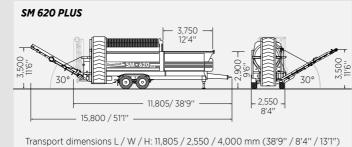
Available for:

- SM 518.2
- SM 620 Plus

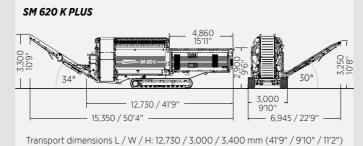
TECHNICAL DATA

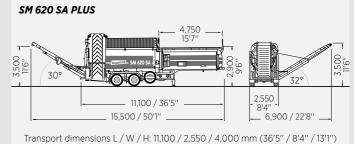
SM-SERIES	SM 518.2		SM 620 PLUS		
	NEW				
Weight	17,000 kg (37,479 lb)		19,000 kg (41,888 lb)		
Chassis	2-central-axle trailer cha for 80 km/h (50 mph) w	· · · · · · · · · · · · · · · · · · ·	2-central-axle trailer chassis, for 80 km/h (50 mph) with ABS		
Drive	Diesel hydraulic		Diesel hydraulic		
Type	DEUTZ TCD 2.9 L4 (opti	onal: electric motor)	DEUTZ TCD 3.6 L4 (opti	onal: electric drive)	
Power	55 kW (75 hp) at 2,200 i	rpm	85 kW (116 hp) at 1,800 rpm		
Torque	300 Nm		480 Nm at 1,600 rpm		
Exhaust level	EU-Stage V / EUROMOT	EU-Stage V / EUROMOT IIIA		EUROMOT IV / Tier 4 final	
Fuel tank	300 I (79 gal)	300 I (79 gal)		300 I (79 gal)	
Drum	2 screening fractions, Option: 3rd fraction by means of stonegrid, vibrating screen or hopper star screen; 4th fraction by means of a windsifter at the rear conveyor		2 screening fractions, Option: 3rd fraction by means of stonegrid, vibrating screen or hopper star screen; 4th fraction by means of a windsifter at the rear conveyor		
Drum Diameter	1,800 mm (5'1")		2,000 mm (6'7")		
Drum Length	4,700 mm (15'5")		5,500 mm (18'1")		
Mesh size	Selectable, 3 – 150 mm (0.12 – 5.9")		Selectable, 3 - 150 mm (0.12 - 5.9")		
Mesh type	Selectable (staggered se	Selectable (staggered squares, round holes, comb)		Selectable (staggered squares, round holes, comb)	
Drum wall thickness	Selectable		Selectable		
Drum speed	0 - 21 rpm	0 – 21 rpm		0 – 21 rpm	
Feeding hopper volume	5 m ³		5 m ³		
Feeding width / height	3,750 / 2,900 mm (12'4" / 9'6")		3,750 / 2,900 mm (12'4" / 9'6")		
Screening area	22,5 m ²		30,2 m ²		
Discharge conveyors Length (*option)	Rear 5,500 mm (18'1") 3,000 mm (9'1")*	Side 5,500 mm (18'1") 3,000 mm (9'1")*	Rear 5,500 mm (3,000 mm*)	Side 5,500 mm (3,000 mm*)	
Discharge conveyors width	800 mm (2'7")	800 mm (2'7")	1,000 mm (3'3")	1,000 mm (3'3")	
Belt speed m/s (ft in/s)	1.4 m/s (4'7")	2.8 m/s (9'2")	1.6 m/s (5'3")	3.1 m/s (10'2")	
Options e.g.	Star screen module, stonegrid, vibrating grid or hopper star screen, remote control, additional hydraulic connections, magnetic pulleys at the side and rear conveyor, winter equipment, other conveyor lengths, windsifter over rear conveyor, wire screen drum, flow divider for side and rear conveyor		Star screen module, stonegrid, vibrating grid or hopper star screen, remote control, additional hydraulic connections, magnetic pulleys at the side and rear conveyor, winter equipment, other conveyor lengths, windsifter over rear conveyor, wire screen drum, flow divider for side and rear conveyor		





SM-SERIES	SM 620 K PLUS		SM 620 SA PLUS		
	591-650-K				
Weight	24,000 kg (52,911 lb)		24,000 kg (52,911 lb)		
Chassis	Track drive with two speed	ds	Semitrailer chassis		
Drive	Diesel hydraulic		Diesel hydraulic		
Туре	DEUTZ TCD 3.6 L4		DEUTZ TCD 3.6 L4 (optional: electric motor)		
Power	85 kW (116 hp) at 1,800 rp	m	85 kW (116 hp) at 1,800 rpm		
Torque	480 Nm at 1,600 rpm			480 Nm at 1,600 rpm	
Exhaust level	EUROMOT IV / Tier 4 final		EUROMOT IV / Tier 4 final		
Fuel tank	400 l (105 gal)		400 I (105 gal)		
Drum	2 screening fractions, Option: 3rd fraction by means of stonegrid or vibrating screen,4th fraction by means of a windsifter at the rear conveyor		2 screening fractions, Option: 3rd fraction by means of stonegrid or vibrating screen, 4th fraction by means of a windsifter at the rear conveyor		
Drum Diameter	2,000 mm (6'7")		2,000 mm (6'7")		
Drum Length	5,500 mm (18')		5,500 mm (18')		
Mesh size	Selectable, 3 – 150 mm (0.12 – 5.9")		Selectable, 3 – 150 mm (0.12 – 5.9")		
Mesh type	Selectable (staggered squ	Selectable (staggered squares, round holes, comb)		Selectable (staggered squares, round holes, comb)	
Drum wall thickness	Selectable	Selectable		Selectable	
Drum speed	0 – 21 rpm		0 – 21 rpm		
Feeding hopper volume	7 m^3	7 m³		7 m ³	
Feeding width / height	4,860 / 2,900 mm (15'11" / 9'6")		4,750 / 2,900 mm (15'7" / 9'6")		
Screening area	30,2 m ²		30,2 m ²		
Discharge conveyors Length (*option)	Rear 5,500 mm (18'1")	Side 5,250 mm (17'3")	Rear 5,500 mm (18'1")	Side 5,500 mm (18'1")	
Discharge conveyors width	1,000 mm (3'3")	1,000 mm (3'3")	1,000 mm (3'3")	1,000 mm (3'3")	
Belt speed m/s (ft in/s)	1,6 m/s (5'3")	3,1 m/s (10'2")	1.6 m/s (5'3")	3.1 m/s (10'2")	
Options e.g.	Star screen inlay, stonegrid, vibrating screen, remote control, additional hydraulic connections, magnetic pulleys at the side and rear conveyor, windsifter over rear conveyor, wire screen drum, flow divider for side and rear conveyor		Star screen inlay, stonegrid, vibrating screen, remote control, additional hydraulic connections, magnetic pulleys at the side and rear conveyor, windsifter over rear conveyor, winter package, wire screen drum, flow divider for side and rear		





conveyor

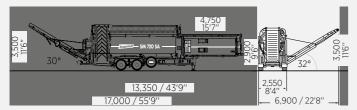
TECHNICAL DATA

SM-SERIES SM 720 SA PLUS



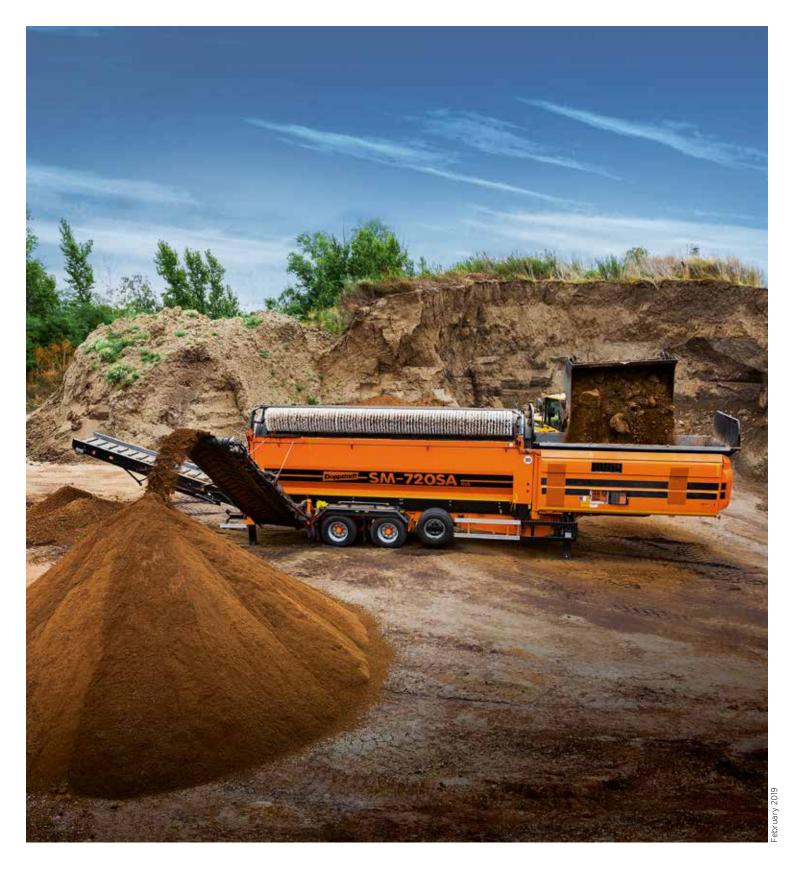
Weight	24,000 kg (52,911 lb)		
Chassis	Semitrailer chassis		
Drive	Diesel hydraulic		
Туре	DEUTZ TCD 3.6 L4 (optional: electric motor)		
Power	85 kW (116 hp) at 1,800 rpn	n	
Torque	480 Nm at 1,600 rpm		
Exhaust level	EUROMOT IV / Tier 4 final		
Fuel tank	400 I (105 gal)		
Drum	2 screening fractions, Option: 3rd fraction by means of stonegrid or vibrating screen, 4th fraction by means of a windsifter at the rear conveyor		
Drum Diameter	2,000 mm (6'7")		
Drum Length	7,100 mm (23'4")		
Mesh size	Selectable, 3 – 150 mm (0.12 – 5.9")		
Mesh type	Selectable (staggered squares, round holes, comb)		
Drum wall thickness	Selectable		
Drum speed	0 – 24 rpm		
Feeding hopper volume	7m^3		
Feeding width / height	4,750 / 2,900 mm (15'7" / 9'6")		
Screening area	38,8 m ²		
Discharge conveyors Length (*option)	Rear 5,500 mm (18'1")	Side 5,500 mm (18'1")	
Discharge conveyors width	1,000 mm (3'3")	1,000 mm (3'3")	
Belt speed m/s (ft in/s)	1.6 m/s mm (5'3")	3.1 m/s mm (10'2")	
Options e.g.	Stonegrid, vibrating screen, remote control, additional hydraulic connections, magnetic pulleys at the side and rear conveyor, windsifter over rear conveyor, winter package, wire screen drum, flow divider for side and rear conveyor		

SM 720 SA PLUS



Transport dimensions L / W / H: 13,350 / 2,550 / 4,000 mm (43'9" / 8'2" / 13'1")







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