



TROMMEL LINE



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OPTIMUM SCREENING With Doppstadt trommel screen machines.

The rotating drum can screen even the most difficult materials, with the loaduse of the large screening surface.

The Doppstadt screens with modular design can be adjusted to special tasks. They are extremely mobile

operator. Due to the direct drive, the drum can be changed very easily. By means of sensing material feed making optimum a stonegrid or vibrating screen or with the star screen above the hopper, a third level is adjustable for stability and fraction can be separated.

Thanks to the hydraulically controlled If the machine must be moved, a slip-on discharge conveyors, our drum screen coupling for the drawbar is available. and can easily be controlled by one machines are ready to go within less

than five minutes. The standard rotating and hydraulically controlled brush cleans the drum automatically. The machine a good throughput.





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**















- SLIP-ON COUPLING The slip-on coupling allows the machine to be transported with a wheel loader (only machines with drawbar).



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*.



CENTRAL CONTROL PANEL

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



LARGE DOORS

Optimum access for control, service and maintenance work.

*Option

REAR AND

be added.



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 with minimal downtime and conversion time.

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*, an overband magnet*, and a wind sifter*. As an option, the conveyor length can also be adjusted and a flow divider* for the rear conveyor can



SM-SERIES – TROMMEL SCREENS

Doppstadt,

Main advantages.

- load-sensing material feed to the drum
- swing-out drive unit for easy maintenace
- quick and easy drum change
- many available options to meet various requirements

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- hydraulically controlled cleaning brush
- can be combined with other Doppstadt products
- one-man operation
- (remote control of all main functions)







SM 414

The drum of the SM 414 has a length of approx. 4.2 m (13'9'') and a diameter of 1.4 m (4'7''). For different applications various mesh sizes are available. Screening surface 15.9 m².

SM 414		
Permissible weight	10,500 kg (23,149 lb)	
Drive	Diesel engine	
Туре	Caterpillar C 2.2	
Power	30 kW (41 hp) at 2,000 rpm	
Drum length	4,200 mm (13'9")	
Drum diameter	1,400 mm (4'7")	
Transport dimensions L / W / H	10,500 / 2,300 / 3,750 mm (34'5" / 7'7" / 12'4")	

SM 414 K

The SM 414 K is equal to the SM 414, but it is mounted on a tracklaying chassis and permits an independent maneuvering of the machine without using a tractive unit, even on unsurfaced ground.

SM 414 K

Total weight
Drive
Туре
Power
Drum length
Drum diameter
Transport dimensions L /





	12,000 kg (26,455 lb)
	Diesel engine
	Caterpillar C 2.2
	34 kW (46 hp) at 2,400 rpm
	4,200 mm (13'9")
	1,400 mm (4'7")
/W/H	9,950 / 2,500 / 3,400 mm (32'8" / 8'2" / 11'2")





SM 518 PLUS

The SM 518 Plus 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 PLUS	
Permissible weight	17,000 kg (37,479 lb)
Drive	Diesel engine
Туре	DEUTZ TCD 2.9 L4
Power	55 kW (75 hp) at 2,100 rpm
Drum length	4,700 mm (15'5")
Drum diameter	1,800 mm (5'11")
Transport dimensions L / W / H	11,000 / 2,550 / 4,000 mm (36'1" / 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		
Drive		
Туре		
Power		
Drum length		
Drum diameter		
Transport dimensions		





19,000 kg (41,888 lb)
Diesel engine
DEUTZ TCD 3.6 L4
85 kW (116 hp) at 1,800 rpm
5,500 mm (18')
2,000 mm (6'7")
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 unsurfaced ground thanks to its height adjustable chassis.

SM 620 K PLUS

Total weight
Drive
Туре
Power
Drum length
Drum diameter
Transport dimensions



	24,000 kg (52,911 lb)
	Diesel engine
	DEUTZ TCD 3.6 L4
	85 kW (116 hp) at 1,800 rpm
	5,500 mm (18")
	2,000 mm (6'7")
/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
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")



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
Drive
Туре
Power
Drum length
Drum diameter
Transport dimensions





24,000 kg (52,911 lb)
Diesel engine
DEUTZ TCD 3.6 L4
85 kW (116 hp) at 1,800 rpm
7,100 mm (23'4")
2,000 mm (6'7")
13,250 / 2,550 / 4,000 mm (43'6" / 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 Plus • SM 620 Plus





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 machine.

Available for:

 SM 518 Plus SM 620 SA Plus • SM 620 Plus SM 720 SA Plus • SM 620 K





STONEGRID

The stonegrid is used for separating 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.

Available for: • SM 414

• SM 414 K

• SM 620 Plus SM 720 SA Plus • SM 620 K • SM 518 Plus SM 620 SA Plus



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.

SM 620 SA Plus

Available for: • SM 518 Plus • SM 620 Plus • SM 620 K



WIND SIFTER (REAR CONVEYOR)

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 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 Plus • SM 620 Plus • SM 620 K

- SM 620 SA Plus
- SM 720 SA 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



TECHNICAL DATA



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		
Туре	DEUTZ TCD 2.9 L4 (opti	onal: electric motor)	DEUTZ TCD 3.6 L4 (optional: electric drive)		
Power	55 kW (75 hp) at 2,100 r	pm	85 kW (116 hp) at 1,800 rpm		
Torque	Max. 300 Nm		Max. 400 Nm		
Exhaust level	EUROMOT III B / Tier IV		EUROMOT IV / Tier 4 final		
Fuel tank	300 I (79 gal)		300 l (79 gal)		
Drum	2 screening fractions, Op means of stonegrid, vibr star screen; 4th fraction 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 - 130 mm (Selectable, 3 - 130 mm (0.12 - 5.12")		Selectable, 3 – 130 mm (0.12 – 5.12")	
Mesh type	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		0 – 20 rpm	
Feeding hopper volume	5.0 m ³ (177 ft ³)		5.0 m ³ (177 ft ³)		
Feeding width / height	3,750 / 2,900 mm (12'4" / 9'6")		3,750 / 2,900 mm (12'4" / 9'6")		
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)	1.1 m/s (3'7")	2.3 m/s (7'6")	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, skeletal drum, flow divider for 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, skeletal drum, flow divider for rear conveyor		

SM 518 PLUS

SM-SERIES



Transport dimensions L / W / H: 10,500 / 2,300 / 3,750 mm (34'5" / 7'7" / 12'4")

SM 414 K



Transport dimensions L / W / H: 9,950 / 2,500 / 3,400 mm (32'8" / 8'2" / 11'2")







TECHNICAL DATA

SM-SERIES	SM 6.	20 K PLUS	SM	620 SA PLUS	
				TP-50F	
Weight	24,000 kg (52,911 lb)		24,000 kg (52,911 lb)		
Chassis	Track drive with two spe	eeds	Semitrailer chassis		
Drive	Diesel hydraulic		Diesel hydraulic	· ·	
Туре	DEUTZ TCD 3.6 L4			ptional: electric motor)	
Power	85 kW (116 hp) at 1,800	rpm	85 kW (116 hp) at 1,80	•	
Torque	480 Nm at 1,600 rpm			480 Nm at 1,600 rpm	
Exhaust level	, .	JROMOT 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 - 130 mm (0.12 - 5.12")		Selectable, 3 – 130 mm (0.12 –5.12")		
Mesh type	Selectable (staggered squares, round holes, comb)		Selectable (staggered squares, round holes, comb)		
Drum wall thickness	Selectable	electable Sel		Selectable	
Drum speed	0 – 20 rpm		0 – 20 rpm		
Feeding hopper volume	7.0 m ³ (247 ft ³)		7.0 m ³ (247 ft ³)		
Feeding width / height	4,860 / 2,900 mm (15'11	" / 9'62")	4,750 / 2,900 mm (15	'7" / 9'62")	
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, stoned	. , . ,	, , ,	egrid, vibrating screen,	
op 1010 0.9.	remote control, addition magnetic pulleys at the windsifter over rear con	remote control, additional hydraulic connections, hagnetic pulleys at the side and rear conveyor, vindsifter over rear conveyor, skeletal drum, ow divider for rear conveyor			

SM 620 K PLUS





SM 620 SA PLUS

SM 720 SA PLUS



s of April 2018 – subject to technical alterations. All dimensions are in mm (ft/in). The specifications are approxim lustrations and descriptions may include options that are not part of the standard equipment.





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