

SM SERIES Screens



TROMMEL SCREENS

SM 414
SM 414 K
SM 518
SM 620
SM 620 K
SM 720

STAR SCREEN

SM 1200

Doppstadt

WE CARE

SM SERIES – TROMMEL SCREENS



OPTIMUM SCREENING

DOPPSTADT SCREENS

The rotating trommel can even screen the most difficult materials making the best possible use of the load-sensing material feed and the large screening surface.

Our screens with modular design can be adjusted to special tasks. They are extremely mobile and can easily be controlled by one operator. Due to the roller bearing, the trommel can be changed very easily. By means of a stonegrid or vibrating screen or with the star screen above the hopper, a third fraction can be separated.

The hydraulically controlled discharge conveyors are ready to go within less than five minutes.

A rotating, hydraulically controlled brush cleans the trommel automatically. The machine level is adjustable for stability and a good throughput.

If the machine must be moved, a slip-on coupling for the drawbar is available.

Screening of compost



Transport of the machine



Displacing the machine by wheel loader



SM SERIES IN OPERATION



Composting: Separation via rear and side conveyor

MULTIPLE COMBINATION POSSIBILITIES

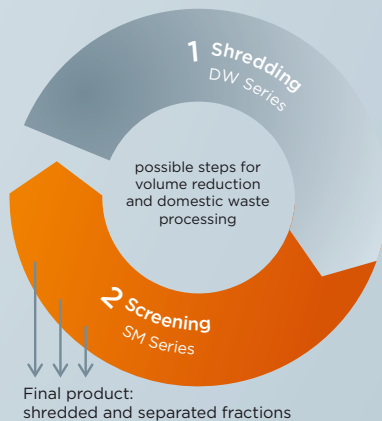
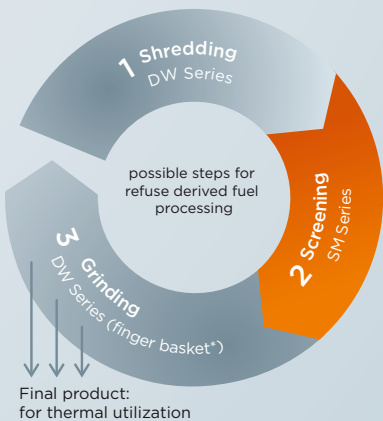
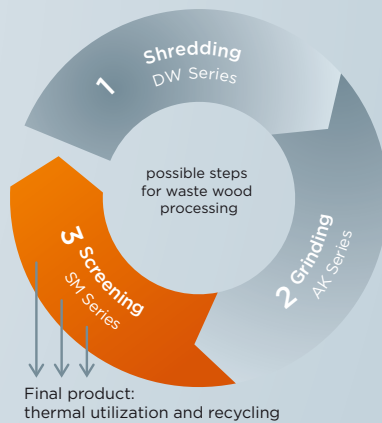
FOR MANY FIELDS OF APPLICATION

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 Dopstadt shredders or windsifters.

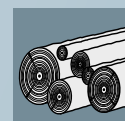
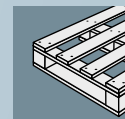


COMPOSTING, WASTE WOOD, GARBAGE AND RDF PROCESSING, VOLUME REDUCTION

Waste wood processing



Optional:
FE-separation,
windsifting and
further processing



*Option

SM SERIES - TROMMEL SCREENS



SLIP-ON COUPLING

The slip-on coupling allows the transport of the machine by means of a wheel loader grab (only machines with drawbar).



SWING-OUT DRIVE UNIT

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



TROMMEL DRIVE

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



CENTRAL CONTROL PANEL

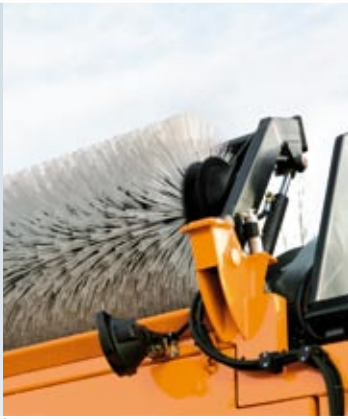
Easy operation, exact adjustment and reading of the machine data by multifunctional display.

MAINTENANCE

Large doors for optimum maintenance



*Option



CLEANING BRUSH

Self-cleaning of the trommel by rotating, hydraulically controlled brush.



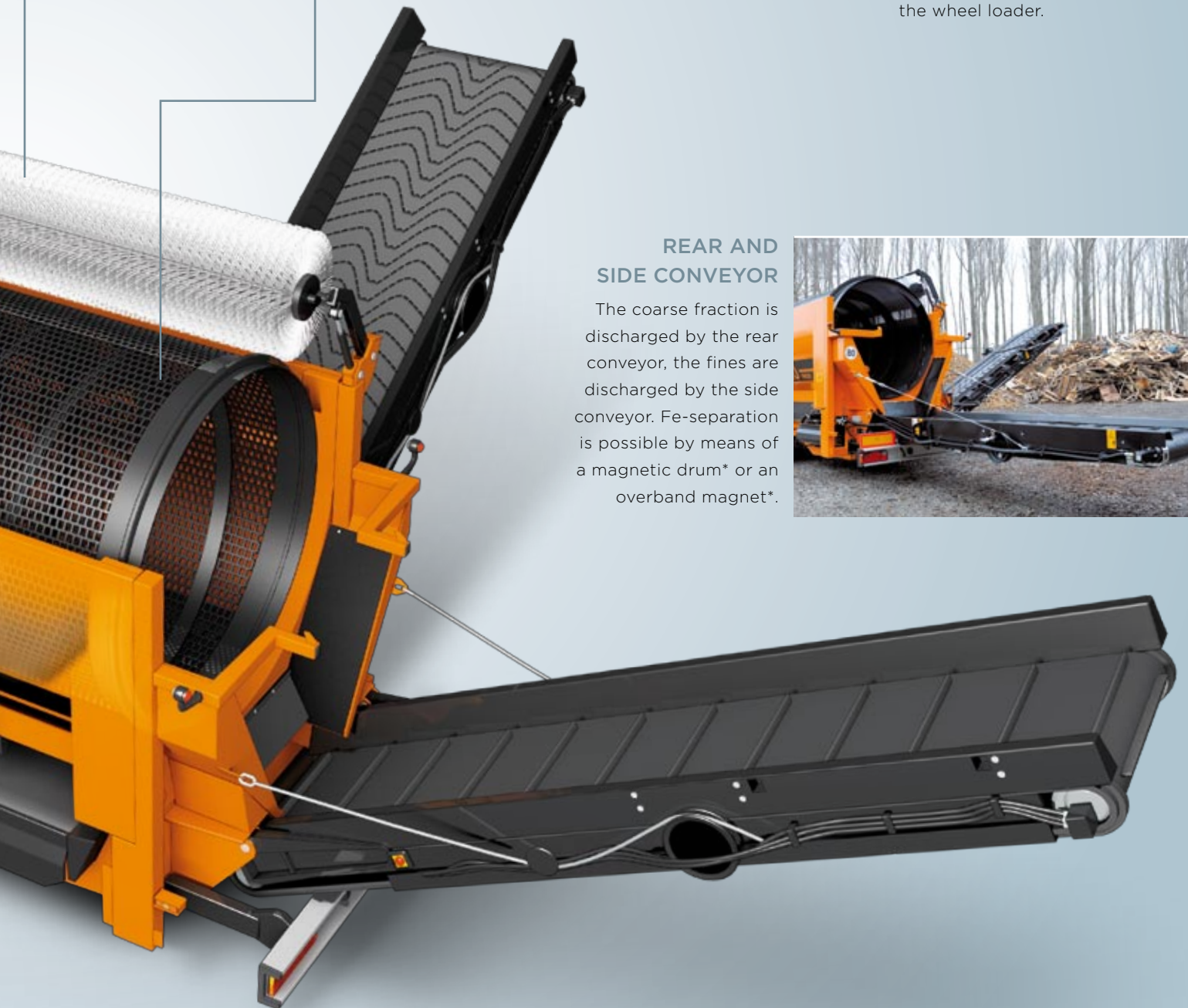
TROMMEL

The patented, load-sensing material feed enables an optimum utilization of the large screening surface. The trommel is quickly replaceable.



REMOTE CONTROL

One-man operation for the control of all the functions of the screen by 16-channel remote control*, e. g. from the wheel loader.



REAR AND SIDE CONVEYOR

The coarse fraction is discharged by the rear conveyor, the fines are discharged by the side conveyor. Fe-separation is possible by means of a magnetic drum* or an overband magnet*.



SM SERIES – TROMMEL SCREENS



SM SERIES

MAIN ADVANTAGES

- load-sensing material feed to the trommel
- swing-out drive unit for easy maintenance
- quick and easy trommel change
- many available options to meet various requirements
- hydraulically controlled cleaning brush
- can be combined with other Doppstadt products
- one-man operation
(remote control of all the functions)



SM 414



Compost



Soil



Sand

SM 414

The trommel of the screen SM 414 has a 1,4 m diameter and a length of 4,2 m. The trommel walls are 6 -10 mm thick. Different meshes are available e. g. square holes, staggered squares and round holes.

Gross vehicle weight	10.500 kg	
Drive	motor type	Caterpillar C2.2
	power	30 kW (41 hp) at 2.000 rpm
Trommel	length	4.200 mm
	diameter	1.400 mm
Transport dimensions L/W/H	10.470 / 2.190 / 3.820 mm	



Top soil

SM 414 K



Log and root timber



Compost



SM 414 K

The SM 414 K is similar to the SM 414, but it is mounted on a tracklaying chassis.

Gross vehicle weight	12.000 kg
Drive	Motor-Typ Caterpillar C2.2 Motor-Leistung 34 kW (46 hp) at 2.400 rpm
Trommel	Länge 4.200 mm Durchmesser 1.400 mm
Transport dimensions L/W/H	9.910 / 2.500 / 3.400 mm



SM 518



Garbage



Compost



Excavated soil

SM 518

The SM 518 has a 1,8 m diameter trommel with a length of 4,7 m. An optional basic skeletal trommel with replaceable screen cloth is available. The trommel wall thickness is 4 - 12 mm. Different meshes are available e. g. square holes, staggered squares and round holes.

Gross vehicle weight	15.000 kg	
Drive	motor type	Caterpillar C3.4
	power	43 kW (58 hp) at 2100 rpm
Trommel	length	4.700 mm
	diameter	1.800 mm
Transport dimensions L/W/H	10.730/2.550/4.000 mm	



Compost

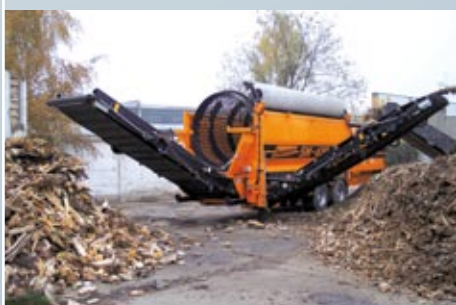
SM 620



Sand



Compost



Log timber

SM 620

Our SM 620 works with a trommel with a 2 m diameter and a length of 5,5 m. The trommel wall thickness is 6 - 12 mm. Different meshes are available e. g. square holes, staggered squares and round holes.

Gross vehicle weight	17.000 kg
Drive	motor type Mercedes-Benz OM 904 LA power 68 kW (92 hp) at 1.600 rpm
Trommel	length 5.500 mm diameter 2.000 mm
Transport dimensions L/W/H	11.810/2.550/4.000 mm



Garbage

SM 620 K



SM 620 K

The SM 620 K is similar to the SM 620 – self-propelled on a tracklaying chassis.

Gross vehicle weight		24.000 kg
Drive	motor type	Mercedes-Benz OM 904 LA
	power	68 kW (92 hp) at 1.600 rpm
Trommel	length	5.500 mm
	diameter	2.000 mm
Transport dimensions L/W/H		11.450/3.000/3.400*mm

*lowered in transport position



Gravel

SM 720



Compost



Compost



Gravel, sand

SM 720

The trommel of the SM 720 has a 2 m diameter and a length of 7,1 m. The trommel wall thickness is 6 – 15 mm. Different meshes are available e. g. square holes, staggered squares and round holes.

Gross vehicle weight	24.000 kg	
Drive	motor type	Mercedes-Benz OM 904 LA
	power	68 kW (92 hp) at 1.600 rpm
Trommel	length	7.100 mm
	diameter	2.000 mm
Transport dimensions L/W/H	12.210/2.550/4.000 mm	



Gravel, sand

SM 1200 TRIFLEX – STAR SCREEN



SM STAR SCREEN

MAIN ADVANTAGES

- high throughput
- the separated materials are highly pure
- precisely separated materials
- possibility to screen even materials with variable moisture content
- compact dimensions and high screening performance
- low noise
- can be combined with other Doppsstadt products
- one-man operation (remote control of all main functions)



SM 1200 TRIFLEX – STAR SCREEN



SCREENING MOST DIFFICULT MATERIALS

THE DOPPSTADT STAR SCREEN SM 1200 TRIFLEX

The Doppstadt star screen SM 1200 Triflex is a powerful and efficient star screen.

On a robust steel frame, there are two screening levels with a series of screening shafts with numerous star-shaped discs.

WORKING PRINCIPLE

The material to be screened is charged into the hopper. From the conveying floor it is transported to the coarse screening deck by means of a material conditioner. The coarse screening deck carries out the first step of material separation. The medium fraction falls through the gaps of the star screener while the oversize is transported from one star shaft to the next and finally discharged.

The rotation in the same direction of all the star elements loosens, recirculates and transports the material.

By means of different shaft speeds the material can be torn apart. The grain size of the fines can be determined by different star sizes and different speeds.

On the lower level, the fine screening deck, the material is screened once again, separated into the medium and fine fraction and then discharged by two side conveyors.

With its more than 13 m² screening surface, the Doppstadt SM 1200 Triflex achieves very high throughput capacities. The throughput capacity is not even reduced in case of wet materials.

The separated materials are highly pure.

Optional equipment such as windsifters, star screens above the hopper (Bioscreen), magnetic separators or stonegrids extend the range of applications.



SM 1200



SM 1200 Triflex

The Doppstadt SM 1200 Triflex is a powerful and efficient star screen. Thanks to the material conditioner and the two screening decks the materials are divided in three fractions.



Coarse screening deck



Two screening decks



Waste wood

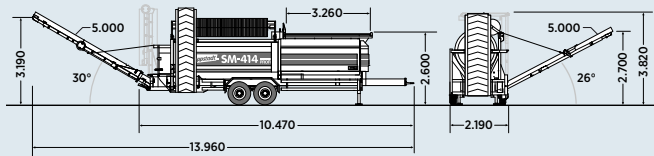
Gross vehicle weight	22.000 kg	
Drive	motor type	Mercedes-Benz OM 904 LA
	power	68 kW (92 hp) at 1.600 rpm
Screening deck	Fine	length 4.800 mm, diameter 1.100 mm
	Coarse	length 5.500 mm, diameter 1.250 mm
Transport dimensions L/W/H	12.000 / 2.550 / 4.000 mm	



Log and root timber

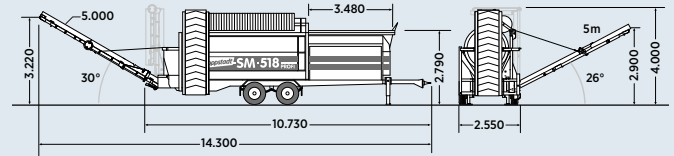
TECHNICAL DATA SM SERIES

SM 414



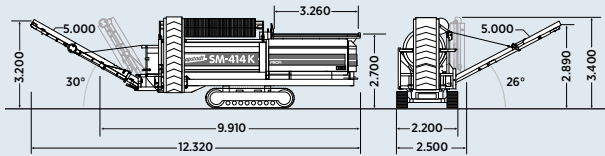
Transport dimensions L/W/H: 10.470 / 2.190 / 3.820

SM 518



Transport dimensions L/W/H: 10.730 / 2.550 / 4.000

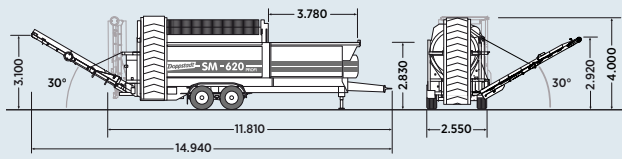
SM 414 K



Transport dimensions L/W/H: 9.910 / 2.500 / 3.400

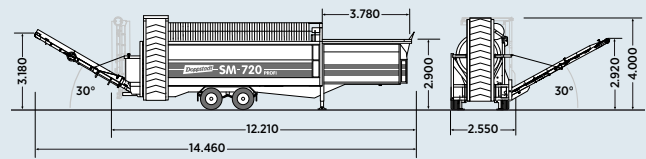
Model	SM 414	SM 414 K	SM 518
Gross vehicle weight	10.500 kg	12.000 kg	15.000 kg
Chassis	2-central-axle trailer chassis, for 80 km/h according to StVZO, with ABS	Tracklaying chassis	2-central-axle trailer chassis, for 80 km/h according to StVZO, with ABS
Drive	Diesel motor	Diesel motor	Diesel motor
Type	Caterpillar C 2.2 (optional: electric motor)	Caterpillar C 2.2 (optional: electric motor)	Caterpillar C 3.4 [optional: CAT CT 3.4, Mercedes-Benz OM 904 LA, electric motor]
Power	30 kW (41 hp) at 2.000 rpm	34 kW (46 hp) at 2.400 rpm	43 kW (58 hp) [57 / 68 kW] at 2.100 rpm
Torque	max. 143 Nm	max. 143 Nm	max. 200 Nm (265 / 400 Nm)
Exhaust level	EUROMOT IIIA	EUROMOT IIIA	EUROMOT IIIA
Fuel tank	100 l	100 l	300 l
Trommel basic skeletal trommel			2 screening fractions, 3rd fraction by means of stonegrid, vibrating screen or disc separator; 4th fraction by means of a windsifter at the rear conveyor
Diameter	1.400	1.400	1.800
Length	4.200	4.200	4.700
Mesh size	selectable, 8 - 100 mm	selectable, 8 - 100 mm	selectable, 5 - 100 mm
Mesh type	selectable (square holes, staggered squares, round holes)	selectable (square holes, staggered squares, round holes)	selectable (square holes, staggered squares, round holes)
Trommel wall thickness	selectable, 6 - 10 mm	selectable, 6 - 10 mm	selectable, 6 - 12 mm
Trommel speed	0 - 21 rpm	0 - 21 rpm	0 - 21 rpm
Feeding hopper			
Feeding volume	3,0 m ³	3,0 m ³	4,0 / 4,4 m ³
Feeding width/height	3.260 / 2.600	3.260 / 2.700	3.480 / 2.790
Discharge conveyors	rear side	rear side	rear side
Length	3.000 (5.000*) 3.000 (5.000*)	3.000 (5.000*) 5.000	3.000 (5.000*) 5.000 (3.000*)
Width	800 600	800 600	800 800
Belt speed	0,8 m/s 2,0 m/s	1,0 m/s 2,4 m/s	1,3 m/s 2,7 m/s
Options	Stonegrid, remote control, other conveyor length, additional hydraulic connection	Stonegrid, remote control, other conveyor length, additional hydraulic connection	Stonegrid, vibrating screen or disc separator, remote control, additional hydraulic connections, sorting-start-stop, flow divider at the rear conveyor, magnetic drums at the side and rear conveyor, winter equipment, splashguard, special paint, other conveyor length

SM 620



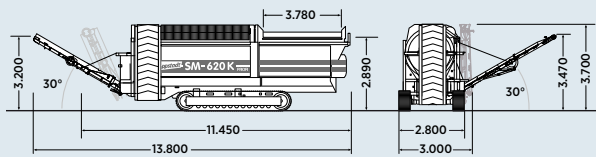
Transport dimensions L/W/H: 11.810/2.550/4.000

SM 720



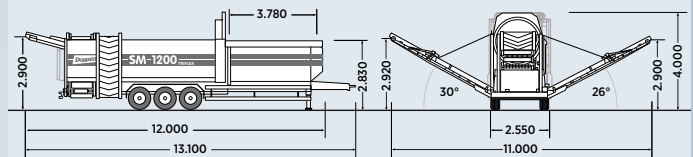
Transport dimensions L/W/H: 12.210/2.550/4.000

SM 620K



Transport dimensions L/W/H: 11.450/3.000/3.400

SM 1200



Transport dimensions L/W/H: 12.000/2.550/4.000

SM 620

SM 620 K

SM 720

SM 1200

17.000 kg

24.000 kg

24.000 kg

22.000 kg

2-central-axle trailer chassis, for 80 km/h according to StVZO, with ABS

Tracklaying chassis with two speeds

2-axle semitrailer chassis, for 80 km/h according to StVZO, with ABS

3-central-axle trailer chassis, for 80 km/h according to StVZO, with ABS

Diesel motor

Diesel motor

Diesel motor

Diesel motor

Mercedes-Benz OM 904 LA (optional: electric motor)

Mercedes-Benz OM 904 LA

Mercedes-Benz OM 904 LA (optional: electric motor)

Mercedes-Benz OM 904 LA

68 kW (92 hp) at 1.600 rpm

68 kW (92 hp) at 1.600 rpm

68 kW (92 hp) at 1.600 rpm

68 kW (92 hp) at 1.600 rpm

max. 400 Nm

max. 400 Nm

max. 400 Nm

max. 400 Nm

EUROMOT III A

EUROMOT III A

EUROMOT III A

EUROMOT III A

300 l

300 l

300 l

300 l

2 screening fractions, 3rd fraction by means of stonegrid, vibrating screen or disc separator; 4th fraction by means of a windsifter at the rear conveyor

2 screening fractions, 3rd fraction by means of stonegrid, vibrating screen or disc separator; 4th fraction by means of a windsifter at the rear conveyor

2 screening fractions, 3rd fraction by means of stonegrid, vibrating screen or disc separator; 4th fraction by means of a windsifter at the rear conveyor

Star screens

3 screening fractions

Fine screening deck

length 4.800, width 1.100

Coarse screening deck

length 5.500, width 1.250

4th fraction

by means of a stonegrid

5th fraction

by means of a windsifter at the rear conveyor

2.000

2.000

2.000

5.500

5.500

7.100

selectable, 6 - 100 mm

selectable, 6 - 100 mm

selectable, 8 - 100 mm

selectable (square holes, staggered squares, round holes)

selectable (square holes, staggered squares, round holes)

selectable (square holes, staggered squares, round holes)

selectable, 6 - 12 mm

selectable, 6 - 12 mm

selectable, 6 - 15 mm

0 - 18 rpm

0 - 18 rpm

0 - 18 rpm

5,0 m³

5,0 m³

5,0 m³

5,0 m³

3.780/2.830

3.780/2.890

3.780/2.900

3.780/2.830

rear side

rear side

rear side

rear side

4.750 (3000*) 4.750

4.750 4.750

4.750 4.750

2.300 5.000/4.750

1.000 1.000

1.000 1.000

1.000 1.000

1.200 800/1.000

1,4 m/s 2,8 m/s

0,9 m/s 2,1 m/s

1,1 m/s 2,8 m/s

1,4 m/s 2,8 m/s

Stonegrid, vibrating screen or disc separator, remote control, additional hydraulic connections, sorting-start-stop, flow divider at the rear conveyor, magnetic drums at the side and rear conveyor, winter equipment, splashguard, special paint, other conveyor length

Stonegrid, vibrating screen or disc separator, remote control, additional hydraulic connections, sorting-start-stop, flow divider at the rear conveyor, magnetic drums at the side and rear conveyor, winter equipment, splashguard, special paint

Stonegrid, vibrating screen or disc separator, remote control, additional hydraulic connections, sorting-start-stop, flow divider at the rear conveyor, magnetic drums at the side and rear conveyor, winter equipment, splashguard, special paint

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