

# SM/SST SERIES Trommel Screens



SM 518 A  
SM 518 F  
SM 620 A  
SST 518  
SST 720  
SST 725  
SST 1025  
SST 1525  
DST 512 / 513 Star Screen

**Doppstadt**

WE CARE

# SM/SST SERIES



## OPTIMUM SCREENING

### DOPPSTADT TROMMEL SCREENS

Stationary trommel screens of the DOPPSTADT SM/SST series can be used for fine screening on landfill sites, for screening of the organic fraction in Mechanical-Biological-Treatment (MBT) plants, in recycling plants, in waste wood processing and for other separation and sorting applications.

The rotating drum can even screen the most difficult materials making the best possible use of the load-sensing material feed and the large screening surface. The screens with modular design can be adjusted to special tasks.

Optional cleaning systems (brush or drum scraper) are also available.

The machines are mounted on substructures which are adapted to the project.

The Doppstadt screens can be used either with belt discharge or as a hopper machine.



# SM/SST SERIES IN OPERATION



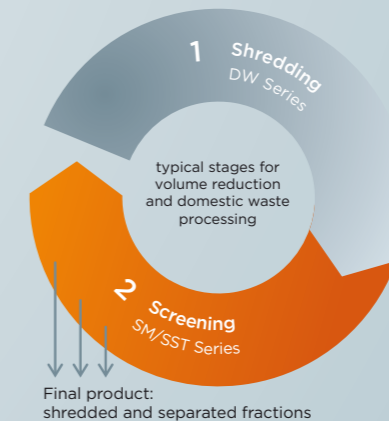
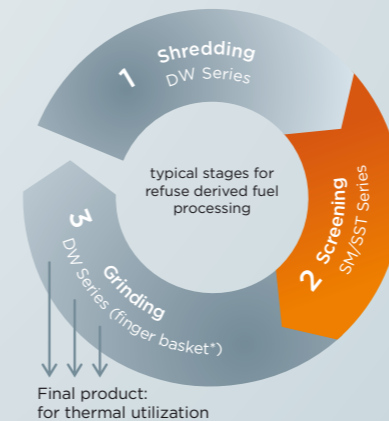
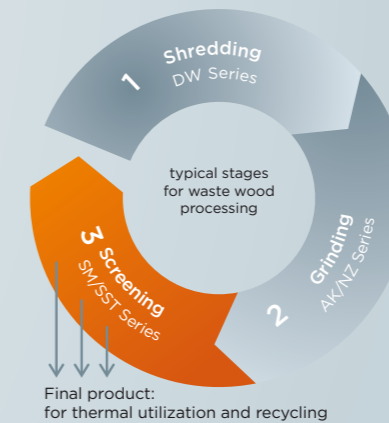
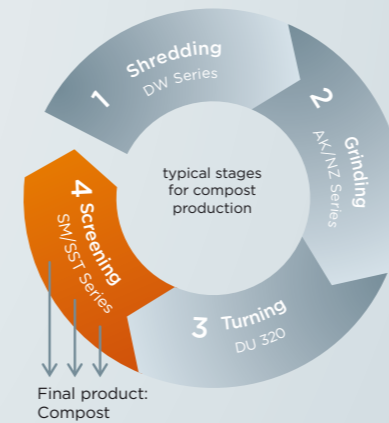
## MULTIPLE COMBINATION POSSIBILITIES

### FOR MANY FIELDS OF APPLICATION

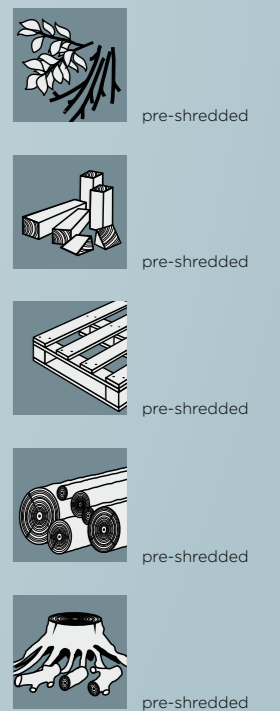
With a screen of the SM/SST series you can screen soil, compost, bark mulch, waste wood, building rubble and much more. The screens are ideally suited for combined application e.g. with Doppstadt shredders.



### COMPOSTING, COMPOSTING-WOOD, DOMESTIC AND INDUSTRIAL WASTE AND RDF PROCESSING



Optional:  
Fe-separation,  
windsifting and  
further processing



# SM/SST SERIES



## DRIVE UNIT

Maintenance-friendly and robust direct drive with geared AC motor.



## DRUM DRIVE

The drum of the machines with a diameter up to 2 m (6' 7") are driven by chain pinion.



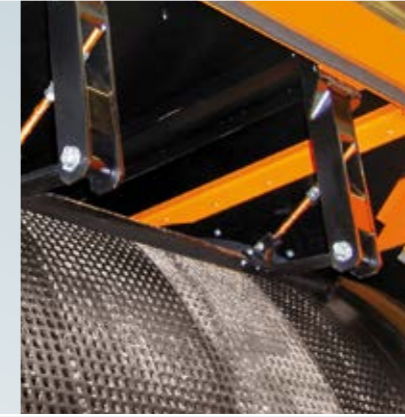
## DRUM DRIVE

The drums of the machines with a 2,5 m (8' 2") drum diameter are driven by friction wheel.



## CLEANING BRUSH

Self-cleaning of the drum by rotating brush.



## SCRAPER

Cleaning of the drum by means of an outer scraper.



## SCREENING DRUM

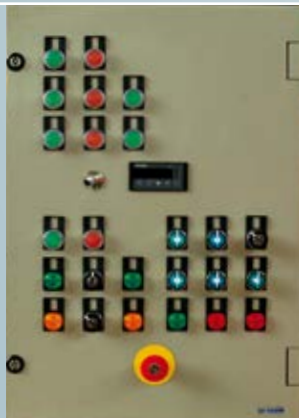
The patented, load-sensing material feed enables an optimum utilization of the large screening surface. The drum is quickly replaceable.

## MATERIAL IN-FEED

Material fed into the machine by conveyor.

## CENTRAL CONTROL PANEL

Control of all the functions for operation and maintenance. Change from manual to automatic operation.



## MATERIAL DISCHARGE

The screens are equipped with interfaces to transfer the material to conveying equipments.



## MAINTENANCE

Large doors for optimum maintenance.

## SM SERIES



### SM SERIES

#### KEY BENEFITS

- Optional load sensing control to material feed for optimum throughput
- Exchangeable trommel-screens facilitate flexibility in applications
- Customised options for various processes available
- Combinability with other Doppstadt plant

## SM 518 A



### SM 518 A

The solution of the most difficult separation tasks is easy for the DOPPSTADT SM 518 A with open design and special helical screening drum construction. It accomplishes its tasks by the well-proven drum construction with helix inside, which enables a horizontal machine installation. Thanks to the replaceable screening drums and different equipments, the SM 518 A can easily be adjusted to different screening tasks. The efficient mechanic power transmission is carried out by a direct chain wheel drive with geared AC motors at the drum surface. Furthermore, highest flexibility for a quick and universal application is guaranteed. Drum-screens used by the SM 518 A are identical to those used by Doppstadt's mobile machine versions and therefore interchangeable. A wide range of the different types of drum-screens are available.

<b>Weight basic machine</b>	4,700 kg (10,362 lb)
<b>Drive</b>	type geared AC motor power 11 kW
<b>Screening drum</b>	length 4,700 mm (15'5") diameter 1,800 mm (5'11")
<b>Dimensions basic machine</b>	L/W/H 6,200/2,300/2,480 mm (20'4"/7'7"/8'2")

## SM 518 F



### SM 518 F

The SM 518 F is a screening machine integrated with a compactly built-on separate feed hopper at one end. The screening specification of this machine is that of the SM 518 A. The solution of the most difficult separation tasks is easy for the DOPPSTADT SM 518 F with open design and special helical screening drum construction. It accomplishes its tasks by the well-proven drum construction with helix inside, which enables a horizontal machine installation. Thanks to the replaceable screening drums and different equipments, the SM 518 F can easily be adjusted to different screening tasks. Drum-screens used by the SM 518 F are identical to those used by Doppstadt's mobile machine versions and therefore interchangeable. A wide range of the different types of drum-screens are available.



<b>Weight basic machine</b>		7,900 kg (17,416 lb)
<b>Drive</b>	type	geared AC motor
	power	11 kW / 3 KW
<b>Screening drum</b>	length	4,700 mm (15'5")
	diameter	1,800 mm (5'11")
<b>Bunker</b>	volume	4.5 m <sup>3</sup> (48 sq ft)
<b>Dimensions basic machine</b>	L/W/H	9,200/2,400/2,700 mm (30'2"/7'10"/8'10")

## SM 620 A



### SM 620 A

The most difficult separation tasks can easily be solved with the DOPPSTADT SM 620 A with open design and special helical screening drum construction. It accomplishes its tasks by the well-proven drum construction with helix inside, which enables a horizontal machine installation. Thanks to the replaceable screening drums and different equipments, the SM 620 A can easily be adjusted to different screening tasks. The efficient mechanic power transmission is carried out by a direct chain wheel drive with geared AC motors at the drum surface. Furthermore, highest flexibility for a quick and universal application is guaranteed. Drum-screens used by the SM 620 A are identical to those used by Doppstadt's mobile machine versions and therefore interchangeable. A wide range of the different types of drum-screens are available.

<b>Weight basic machine</b>		5,900 kg (13,007 lb)
<b>Drive</b>	type	geared AC motor
	power	15 kW
<b>Screening drum</b>	length	5,430 mm (17'10")
	diameter	2,000 mm (6'7")
<b>Dimensions basic machine</b>	L/W/H	6,780/2,350/2,950 mm (22'3"/7'9"/9'8")

## SST SERIES



### SST SERIES

#### KEY BENEFITS

- load-sensing material feed to the drum
- quick and easy drum change
- many available options to meet various requirements
- brush or scraper for drum cleaning
- robust profile steel frame
- easy maintenance thanks to the good access and large doors
- connections for exhausting devices (emission protection)
- can be combined with other Doppstadt products

## SST 518



### SST 518

The solution of the most difficult separation tasks is easy for the completely encased trommel screen SST 518 with helical-guide drum. It accomplishes its tasks by the well-proven drum construction with helix inside, which enables a horizontal machine installation. Thanks to the replaceable screening drums and different equipments, the SST 518 can be adjusted to the different screening tasks. The efficient mechanic power transmission is carried out by a direct chain wheel drive with geared AC motors at the drum surface. Furthermore, highest flexibility for a quick and universal application is guaranteed. Drum-screens used by the SST 518 are identical to those used by Doppstadt's mobile machine versions and therefore interchangeable. A wide range of the different types of drum-screens are available.

<b>Weight basic machine</b>		7,800 kg (17,196 lb)
<b>Drive</b>	type	geared AC motor
	power	11 kW
<b>Screening drum</b>	length	4,700 mm (15' 5")
	diameter	1,800 mm (5' 11")
<b>Dimensions basic machine</b>	L / W / H	6,900 / 2,400 / 3,100 mm (22' 8" / 7' 11" / 10' 2")

## SST 720



### SST 720

The most difficult separation tasks can easily be solved with the completely encased Doppstadt SST 720 with helical guide drum. It accomplishes its tasks by the well proven drum construction with helix inside, which enable a horizontal machine installation. Thanks to the replaceable screening drums and different equipment's, the SST 720 can be adjusted to the different screening tasks. The efficient mechanic power transmission is carried out by direct wheel drives with compact geared AC motor. Furthermore, highest flexibility for a quick and universal application is guaranteed.

<b>Weight basic machine</b>		13,000 kg (28,660 lb)
<b>Drive</b>	type	geared AC motor
	power	22 kW
<b>Screening drum</b>	length	7,000 mm (23')
	diameter	2,000 mm (6'7")
<b>Dimensions basic machine</b>	L/W/H	9,480/2,500/3,300 mm (31'1"/8'2"/10'10")

## SST 725



### SST 725

The most difficult separation tasks can easily be solved with the completely encased DOPPSTADT SST 725 with helical-guide drum. It accomplishes its tasks by the well-proven drum construction with helix inside, which enables a horizontal machine installation. Thanks to the replaceable screening drums and different equipments, the SST 725 can be adjusted to the different screening tasks. The efficient mechanic power transmission is carried out by 2 direct wheel drives with compact geared AC motors. Furthermore, highest flexibility for a quick and universal application is guaranteed.

<b>Weight basic machine</b>		15,200 kg (33,510 lb)
<b>Drive</b>	type	geared AC motor
	power	2x15 kW
<b>Screening drum</b>	length	7,000 mm (23')
	diameter	2,500 mm (8'2")
<b>Dimensions basic machine</b>	L/W/H	9,350/3,000/3,260 mm (22'3"/9'10"/10'8")

## SST 1025



### SST 1025

The solution of the most difficult separation tasks is easy for the encased DOPPSTADT SST 1025 with helical-guide drum. It accomplishes its tasks by the well-proven drum construction with helix inside, which enables a horizontal machine installation. Thanks to the replaceable screening drums and different equipments, the SST 1025 can easily be adjusted to the different screening tasks. The efficient mechanic power transmission is carried out by 4 direct wheel drives with compact geared AC motors. Furthermore, highest flexibility for a quick and universal application is guaranteed.

<b>Weight basic machine</b>		21,000 kg (46,297 lb)
<b>Drive</b>	type	geared AC motor
	power	4x11 kW
<b>Screening drum</b>	length	10,000 mm (32'10")
	diameter	2,500 mm (8'2")
<b>Dimensions basic machine</b>	L/W/H	12,300/3,000/3,260 mm (41'4"/9'10"/10'8")

## SST 1525



### SST 1525

The most difficult separation tasks can easily be solved with the completely encased Doppstadt SST 1525 with helical guide drum. It accomplishes its tasks by the well proven drum construction with helix inside, which enable a horizontal machine installation. Thanks to the replaceable screening drums and different equipments, the SST 1525 can be adjusted to the different screening tasks. The efficient mechanic power transmission is carried out by 4 direct wheel drives with compact geared AC motors. Furthermore, highest flexibility for a quick and universal application is guaranteed. The SST 1525 is a module of 2 SST 725 screening machines.

<b>Weight basic machine</b>		29,500 kg (65,036 lb)
<b>Drive</b>	type	geared AC motor
	power	4x15 kW
<b>Screening drum</b>	length	2 x 7,000 mm (2 x 23')
	diameter	2,500 mm (8'2")
<b>Dimensions basic machine</b>	L/W/H	17,600/3,000/3,260 mm (57'9"/9'10"/10'8")



## DST 512 / 513 Star Screen

## TECHNICAL DATA DST 512 / 513 Star Screen



### DST 512 / 513 Star Screen

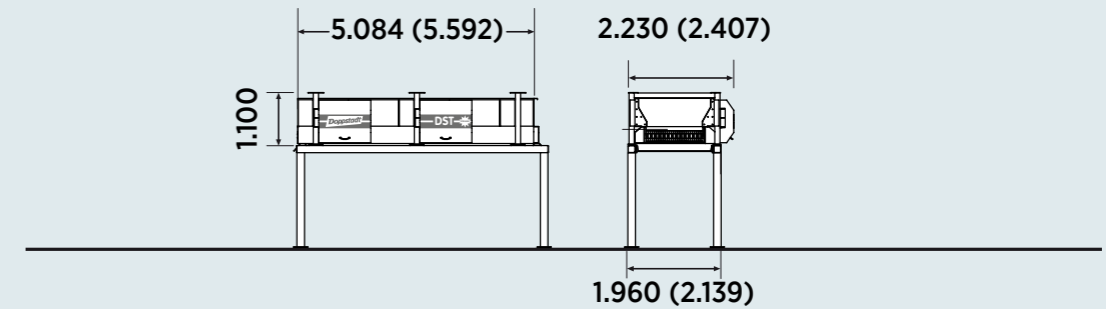
The DST star screens are adapted to suit the task of screening green waste and compost. The following features are equipped in order to minimize cleaning time and to improve the screening result.

- Elliptical stars and different shaft speeds
- Variable star module speed
- Differing speeds within the Star-screen module
- Metal tipped star fingers cleans shaft and star disc sides, disperses lumps of materials

A mixture of grading size(s) can be achieved by using different size stars, star shapes and spacers in the different modules along the screening bed.

<b>Weight basic machine</b>		3,400 kg (7,496 lb)	
<b>Drive</b>	type	Detachable geared motor SEW	
	power	2 x 7.5 kW AC/IE2	
<b>Screening bed</b>		DST 512	DST 513
	length	5,000 mm	5,000 mm
	width	1,200 mm	1,350 mm
	diameter	6 m <sup>2</sup>	6.5 m <sup>2</sup>
<b>Dimensions basic machine</b>	L/W/H	5,100/2,230/1,100 mm (16' 9"/7' 4"/3' 7")	

### DST 512 / 513 Star Screen



### Model

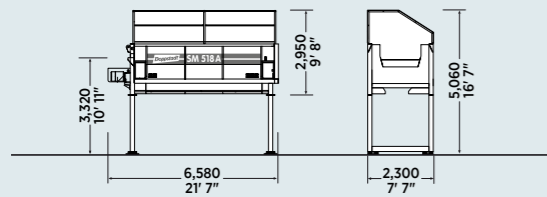
### DST 512 / 513 Star Screen

<b>Drive</b>	Detachable geared motor with separate fan and temperature sensor	
<b>Power</b>	2 x 7.5 kW AC/IE2	
<b>Type</b>	SEW	
<b>Power rating (per drive)</b>	2 x 7.5 kW AC/IE2	
<b>Voltage</b>	230 / 400 V	
<b>Frequency</b>	50 Hz	
<b>IP rating</b>	IP 54	
<b>Speed control (optional)</b>	Frequency converter	
<b>Dimension</b>		
<b>Frame width</b>	2,230 mm (7' 4")	
<b>Frame length</b>	5,100 mm (16' 9")	
<b>Weight</b>	3,400 kg (7,496 lb)	
<b>Screening bed (module)</b>		
<b>Working length</b>	5,000 mm (16' 5")	
	DST 512	DST 513
<b>Working width</b>	1,200 mm (3' 11")	1,350 mm (4' 5")
<b>Screening surface area</b>	6.0 m <sup>2</sup>	6.5 m <sup>2</sup>
<b>Star segment diameter</b>	235 mm (9")	300 mm (1')
	Diameter relevant to required screening size	
<b>Number of shafts per module</b>	26 star screen shafts Ø 235 / 255 mm (9" / 10") 24 star screen shafts Ø 330 / 340 mm (1'1" / 1'1")	
<b>Shaft speed</b>	approx. 90 - 200 rpm, incl. switch cabinet and frequency converter (optional position)	

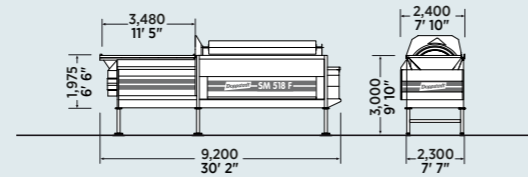
As of April 2014 - subject to technical alterations. The specifications are approximate. Illustrations and descriptions might include options that are not part of the standard equipment.

# TECHNICAL DATA SM/SST SERIES

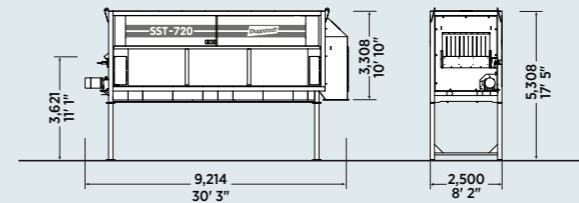
SM 518 A



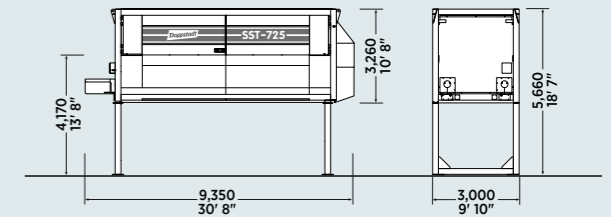
SM 518 F



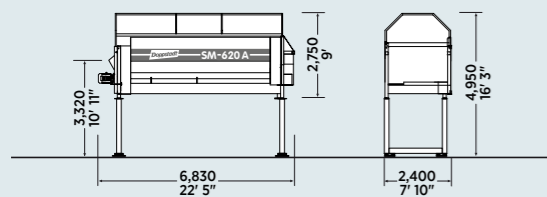
SST 720



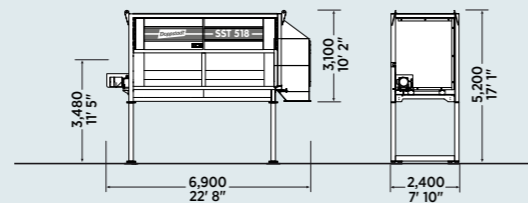
SST 725



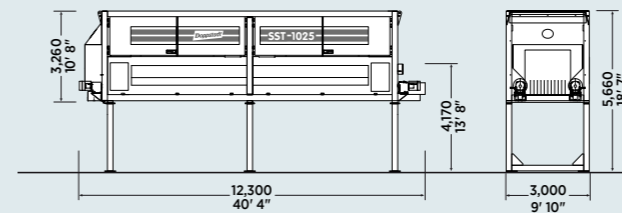
SM 620 A



SST 518



SST 1025



SST 1525

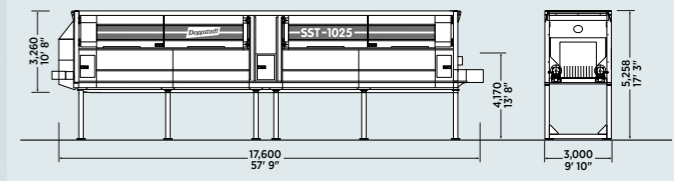


Illustration show machine mounting frames and discharge conveyors.

Model	SM 518 A	SM 518 F	SM 620 A	SST 518	SST 720	SST 725	SST 1025	SST 1525
<b>Drive</b>								
<b>Power/Type</b>	11 kW geared AC motor	15 kW geared AC motor 3 kW discharge hopper	15 kW geared AC motor	11 kW geared AC motor	22 kW geared AC motor	2 x 15 kW geared AC motor	4 x 11 kW geared AC motor	4 x 15 kW geared AC motor
<b>Power transmission</b>	sprocket/chain	sprocket/chain	sprocket/chain	sprockets/chain	friction wheels	friction wheels	friction wheels	friction wheels
<b>Trommel</b>								
<b>Diameter</b>	1,800 mm (5'11")	1,800 mm (5'11")	2,000 mm (6'7")	1,800 mm (5'11")	2,000 mm (6'7")	2,500 mm (8'2")	2,500 mm (8'2")	2,500 mm (8'2")
<b>Length</b>	4,700 mm (15'5")	4,700 mm (15'5")	5,430 mm (17'10")	4,700 mm (15'5")	7,000 mm (23')	7,000 mm (23')	10,000 mm (32'10")	2 x 7,000 mm (2 x 23')
<b>Screening surface</b>	approx. 23.1 m <sup>2</sup> (249 sq ft)	approx. 23.1 m <sup>2</sup> (249 sq ft)	approx. 30.2 m <sup>2</sup> (325 sq ft)	approx. 23.1 m <sup>2</sup> (249 sq ft)	approx. 38.8 m <sup>2</sup> (418 sq ft)	approx. 43.5 m <sup>2</sup> (468 sq ft)	approx. 63.8 m <sup>2</sup> (686 sq ft)	approx. 95.8 m <sup>2</sup> (1,031 sq ft)
<b>Perforation</b>	custom	custom	custom	custom	custom	custom	custom	custom
<b>Standard RPM</b>	12 rpm	12 rpm	12 rpm	12 rpm	10 rpm	10 rpm	10 rpm	10 rpm
<b>Variable RPM (Set at CPanel-optinal)</b>	7-21 rpm	7-21 rpm	7-18 rpm	7-21 rpm	7-18 rpm	4-15 rpm	4-15 rpm	4-15 rpm
<b>Dimensions</b>								
<b>Basic machine (L/W/H)</b>	6,200/2,300/2,480 mm (20'4"/7'7"/8'2")	9,200/2,400/2,700 mm (30'2"/7'10"/8'10")	6,830/2,400/2,750 mm (22'5"/7'10"/9')	6,900/2,400/3,100 mm (22'8"/7'11"/10'2")	9,480/2,500/3,300 mm (31'1"/8'2"/10'10")	9,350/3,000/3,260 mm (22'3"/9'10"/10'8")	12,300/3,000/3,260 mm (40'4"/9'10"/10'8")	17,600/3,000/3,260 mm (57'9"/9'10"/10'8")
<b>Weight (incl. drum but excl. discharge conveyor)</b>	approx. 4,700 kg (10,362 lb)	approx. 7,900 kg (17,416 lb)	approx. 5,900 kg (13,007 lb)	approx. 7,800 kg (17,196 lb)	approx. 13,000 kg (28,660 lb)	approx. 15,200 kg (33,510 lb)	approx. 21,000 kg (46,297 lb)	approx. 29,500 kg (65,036 lb)
<b>Fine grain collection conveyor (optional)</b>	AA = 3,500 mm x BB = 1,000 mm (AA = 11'5" x BB = 3'3")	AA = 3,500 mm x BB = 1,000 mm (AA = 11'5" x BB = 3'3")	AA = 4,250 mm x BB = 1,350 mm (AA = 13'11" x BB = 4'5")	AA = 3,500 mm x BB = 1,000 mm (AA = 11'5" x BB = 3'3")	AA = 6,000 mm x BB = 1,000 mm (AA = 19'8" x BB = 3'3")	AA = 6,000 mm x BB = 1,500 mm (AA = 19'8" x BB = 4'11")	AA = 8,750 mm x BB = 1,500 mm (AA = 28'8" x BB = 4'11")	AA = 6,000 mm x BB = 1,500 mm (AA = 19'8" x BB = 4'11")
<b>Optional equipment</b>	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour	Machine mounting legs, single sided maintenance walkway, cleaning brush, drum scraper, screening drum, sack ripper, drive fins, switchboard cabinet with frequency converter, distribution box with controls, Profibus-PLC, customised RAL colour

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AA = Conveyor length, BB = Conveyor width

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