

Doppstadt

AK SERIES

SMART SHREDDING

GRINDER LINE

**MOBILE &
STATIONARY**



Best Solution. Smart Recycling.

[doppstadt.com](https://www.doppstadt.com)





With high throughput and low maintenance expenses, our AK series offers you optimum shredding solutions for a wide range of requirements.

THE AK SERIES

Heavy duty and high-tech for optimal results.

The mobile high-speed grinders of our AK series represent highly efficient solutions for a wide variety of recycling tasks thanks to high production and patented load-sensing material feed system. Regardless of whether you want to use a high-speed grinder of the AK series to process waste wood, green waste, organic waste, pre-shred tree roots or RDF, you will achieve optimal results in any case. When combined with a pre-shredder or a trommel screen, you have the complete solution for a wide range of applications, e.g. mechanical/biological treatment, biomass, refuse-derived fuel processing or mulch production.

HIGH-PERFORMANCE CONCEPT

The separate drive* of the scraper floor and the floating feed roller ensures an optimized supply of material in all machines of the AK series. The scraper floor is driven and controlled electro-hydraulically such that a precise utilization of the engine power is always ensured. This guarantees a consistently high production. All models of the AK series from Doppstadt are distinguished by free-swinging flail holders with individually replaceable wear tools and our patented Dopp-Lock® fastening system and the large flywheel mass of the flail drum (majority of models with approx. 2.5 m. tons), which works at approx.

1,000 revolutions per minute. Depending on requirements, the AK grinders deliver an appropriate engine power that enables maximum production while ensuring efficient operation at the same time.

SMART SHREDDING WITH THE GRINDER LINE

The mobile, high-speed grinders of our Grinder Line offer users an extensive range of solutions for a wide variety of different recycling requirements. From the smallest, high-performance mobile AK 315 grinder through to our flagship AK 640, we offer a wide range of sizes and performance dimensions so that you can choose the

right solution for your needs. Flexible applications are also one of the main features of the Grinder Line: That includes, for instance, the use of 3D rear baskets for a perfect structure of the waste wood as end product or an optional off-road chassis of the AK models with tracked chassis for the decisive advantage in terms of ground clearance.

Smart connected: The use of Doppstadt's cloud-based telematics solution offers visualized access to your machine parameters in real time via GPS: at any time, worldwide.

THIS IS DOPPSTADT

Doppstadt, a family owned company based in Velbert (near Düsseldorf), was founded in 1965. Initially a producer of agricultural machines, Doppstadt has become a leading global supplier of solutions and services in all areas of recycling/environmental technology and resource recovery. 'Best Solutions. Smart Recycling.' True to this motto, we combine proven pro-

cesses technology into individual solutions that are hallmarked by innovative process flows, maximum operational efficiency and cost-effectiveness. With sites in Velbert, Wülfrath and Calbe, we serve customers in more than 40 countries through our own dealership network and offer a wide range of services to support the unique Doppstadt product portfolio.

*Option - not available for AK 315

MACHINE DETAILS



DISPLAY

The new display concept offers a quick overview of machine status and functions.

LATEST ENGINE AND EMISSIONS CONTROL TECHNOLOGY

Better performance through higher torque is just as much a part of the features as complying with the latest requirements of the EU-Stage V emission standards. The complete supercharged air and air intake piping, the exhaust system and the AGN box are made entirely of stainless steel and thermally shielded with the highest quality integral insulation.



ENGINE COMPARTMENT MAINTENANCE

Good accessibility to engine from all sides thanks to wide service doors.



FLAIL DRUM WITH FREE-SWINGING FLAILS

The large-sized flail drum with its flywheel mass of approx. 2.5 m. tons grinds the materials. The free-swinging flail holders with easily replaceable tool tips that are fastened using our patented Dopp-Lock® technology ensure maximum grinding performance thanks to their tremendous force. The rugged rotor with free-swinging tools can easily handle even substantial foreign objects. The machine can always be optimally configured to the input material thanks to the large selection of different flail tips available.

BAFFLE PLATE

The grinding process is supported by a baffle plate. By leveraging different configurations, the AK can be optimally equipped for different applications.

FINE-SHREDDING BASKET

You can determine the desired size of the output material with the aid of fine-shredding baskets, which have a mesh size between 30 and 400 mm. The baskets can be replaced in just 15 minutes using the quick-release system.



*Option:
3D fine-shredding basket specially designed for waste wood



OPTIONAL LOWERABLE REAR CONVEYOR

The new generation of rear belts can be optimally lowered almost to the ground, making access to the machine considerably easier and facilitating maintenance and tool replacement!

REMOVAL OF CONTAMINANTS

Optional, high-quality neodymium magnetic pulleys or an effective overbelt magnet for maximum removal of Fe in waste wood.



SCRAPER FLOOR & FEED ROLLER

The load-sensing scraper floor transports the material to the rotor, while the adjustable feed roller ensures optimal material flow. The automatic, performance-linked reversing function ensures a constant grinding even with demanding materials.



REINFORCED HOPPER

A hopper reinforcement made of HARDOX is available as an option for ensuring even better machine durability under the most challenging operating conditions.



SPECIAL FEED ROLLER

An optional special feed roller for RDF production and the handling of similarly demanding grinding tasks. The roller ensures a more continuous feed of material.



OFF-ROAD CHASSIS

For all AK models with a tracked chassis, an optional off-road chassis offers a decisive advantage in terms of ground clearance.

MACHINE DETAILS



NOISE AND DUST HOOD

For optimized working in sensitive environments.



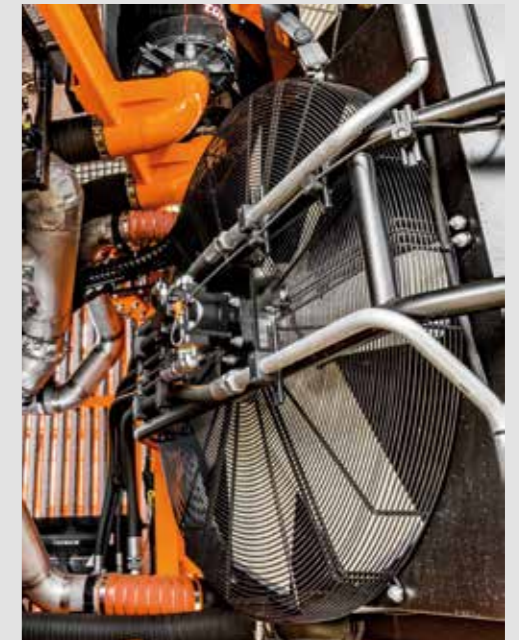
WATER SPRAYING SYSTEM

Optional water spraying system to reduce dust.



HOPPER EXTENSIONS

Optional hopper extensions for a higher capacity and thus a more effective feeding.



VARIABLE-SPEED FAN

The swivelling cooling unit provides effective cooling when needed and is easily accessible and self-cleaning. The large-sized fan wheel can also run in reverse. Intelligent control of the fan's speed ensures a high cooling capacity with optimal flow of fresh air into the engine compartment.



RADIO REMOTE CONTROL

Simple one-man operation, e.g. from the wheel loader, precise setting and monitoring of machine data via the multifunctional display.



FOOT PEDAL EXPANSION KIT

An optional expansion kit is available to allow the operator with the aid of 2 foot pedals to actuate the "Reverse infeed" and "Move the machine" functions. This ensures, on the one hand, optimal control of material feed even with challenging materials and, on the other hand, the simple ability to move the machine along a windrow.

TELEMATICS

Smart connected: A cloud-based telematics solution offers visualized access to the machine's parameters in real time via GSM.



HYDRAULIC BELT TENSIONER

For optimal belt tension even with load changes. This results in an optimal and efficient transfer of power from the engine to the flail drum, which in turn ensures less wear and tear on the drive train.



HYDRAULIC DRIVE

The machine can be moved forwards and backwards with the aid of an optional hydraulic drive unit.



SLIP-ON COUPLING

The slip-on coupling makes it easy to move the machine quickly and safely using a ball-type coupling, which is mounted, e.g., on a wheel loader with grapple.



FURTHER DEVELOPED IN ANY ASPECT

Innovative improvements – Future built in as standard.

The new AK series offers a wide variety of additional advantages. From ease of maintenance and increased performance through to new decentralized electrical system: We have further developed the AK series precisely to meet your requirements. As a result, you benefit from solutions that provide you with even better support in successfully implementing your recycling tasks.

LATEST ENGINE TECHNOLOGY FOR MORE PERFORMANCE

All models are equipped with new engines that do not only provide more power through higher torque but also satisfy the requirements of the EU Stage V emission standard. The innovations made in the machine compartment include the

configuration of the supercharged air / air intake piping of the entire exhaust system and the AGN box, all entirely made of stainless steel for maximum corrosion protection. The use of high-quality integral insulation ensures an optimum temperature control of the intake air and increased fire protection in the area of the exhaust gas treatment system.

EASY MAINTENANCE AND SERVICE

The new rear belt can be lowered almost completely to the ground,* thus offering quick and easy access to the flail drum, tools and shredding basket for servicing and carrying out maintenance work. The new AK series also provides more efficiency in terms of maintenance and service due to the increased use of uniform

and intermachine components, since this results in an optimum supply of spare parts and improved interchangeability of components in case of servicing.

The new decentralized electrical system and the new radio system offer a high level of diagnostic capability via WiFi or Bluetooth interfaces and thus better service support. The machine parameters can be visualized in real time worldwide using Doppstadt's cloud-based telematics system.

IMPROVED EFFICIENCY AND WEAR RESISTANCE

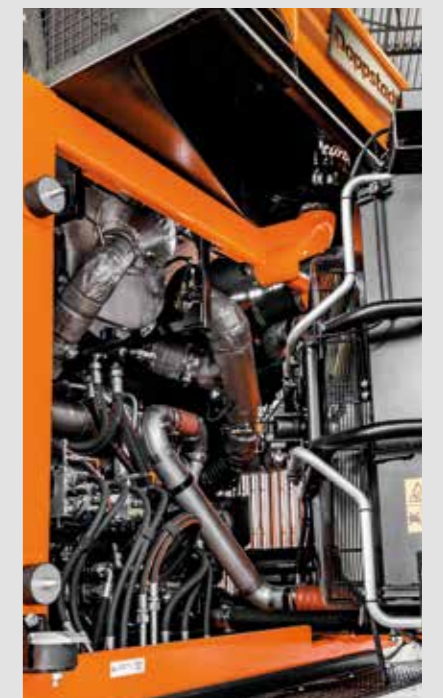
With the new Carbide PLUS type flail tips, which are part of the machine's standard equipment, you have a longer service life that is extended by up to 20 % for

this wear part. Another new feature is the intelligent cooling unit control system, which ensures that the optimum operating temperature is reached more quickly and is continuously maintained through adapted cooling performance. The fan's noise level has been significantly reduced, since the large fan wheel operates at an adjusted speed. The cooling unit is actively cleaned as a result of the automatic temporary reversal of the air flow.

OFF-ROAD USE

To improve off-road mobility in particular environments with even higher ground clearance, an additional "off-road" variation is now available for all AK models with tracked chassis in addition to the standard tracked chassis. The ground

clearance, which was increased by approx. 20 cm, provides additional flexibility, for instance, when using the machine to clear rough terrain.



*Option



HIGH YIELD, LESS EFFORT

Maximum efficiency in maintenance and service.

All models of the new AK series have the option of lowering the rear belt almost entirely to the ground. This always ensures quick and easy access to the flail drum and to different tools, deflectors or grinding baskets, depending on the application and materials. Regardless of whether you want to retrofit the machines for a change in materials or have to have maintenance and service work carried out, the effort has been reduced, making services more convenient.

The flail tips are equipped as standard with our patented Dopp-Lock® fastening technology such that they can be replaced very quickly and easily. With this system, the screw is not actually used to secure the tool but rather provide protection against loss, since the forces acting on the tool are dissipated by the flail holder as a result of the innovative clamping system. Using Doppstadt's original tools, it is possible to achieve a longer service life thanks to material qualities that are geared precisely

to your applications, less maintenance expenditure and thus a high availability of your machinery. The optimized design and amply dimensioned surrounding safety doors make access to the engine compartment especially convenient and simple. All things considered, operational downtimes are reduced significantly, ensuring that you can use your machines longer productively.

PLUG AND PLAY

Replacement made very easy with patented Dopp-Lock® fastening technology: The new Carbide PLUS tool tip has been optimized such that the user can benefit from a longer tool life of up to 20 %. Ideal in combination with Doppstadt 3D baskets for a perfect structure in waste wood.



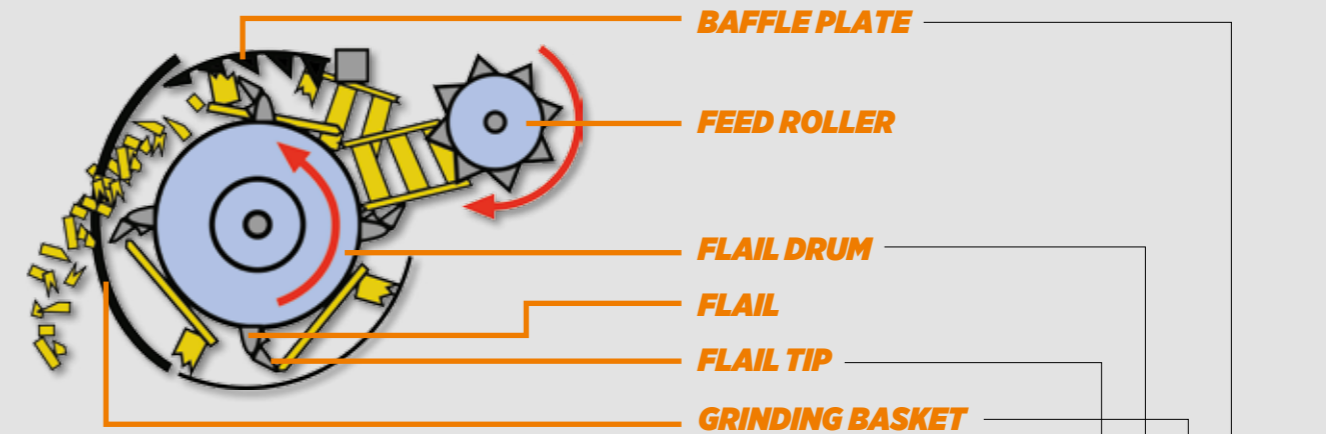
THE GRINDING CONCEPT

The perfect solution for every application.

Processing a wide range of materials requires precisely tailored tools to achieve perfect results.

We therefore provide an extensive array of equipment options for the AK series. Our high-speed grinders can be custom-

ised to create a wide variety of solutions for tackling tough tasks.



Flail tip: Chisel



Flail tip: Carbide Plus



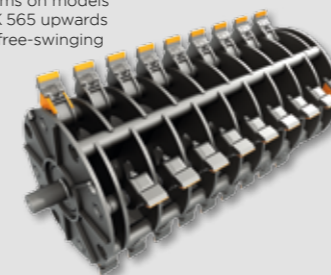
Flail tip: Carbide-reinforced "Bear Paw"



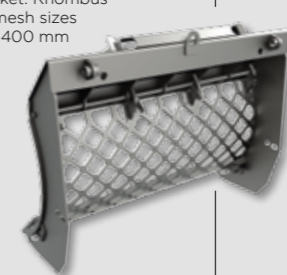
Flail drum on AK 315 with fixed teeth and free-swinging flails, as well as new additional reinforcement plating



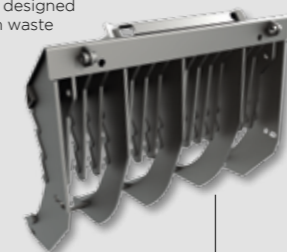
Flail drums on models from AK 565 upwards feature free-swinging flails



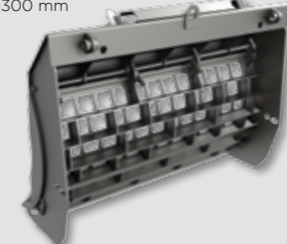
Rear basket: Rhombus various mesh sizes from 30-400 mm



Comb basket: specially designed for green waste



Rear basket: 3D specially designed for waste wood Various mesh sizes from 80-300 mm



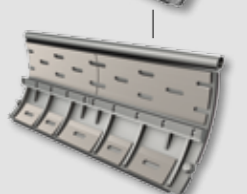
Baffle plate: toothed



Baffle plate: with counter blade



Baffle plate: with counter blade reinforced



Baffle plate: smooth



Baffle plate: with counter blade and row of teeth





ARE YOU LOOKING FOR GRINDERS WITH ALTERNATIVE DRIVES?

Then you are in good hands at Doppstadt!

We present our high-speed shredders with electric motors in stationary applications. In this context, we cover a wide range of applications, from machines with direct feed (AK) or machines for integration as secondary shredder (NZ).

DO YOU HAVE MOBILE AK GRINDERS FROM DOPPSTADT?

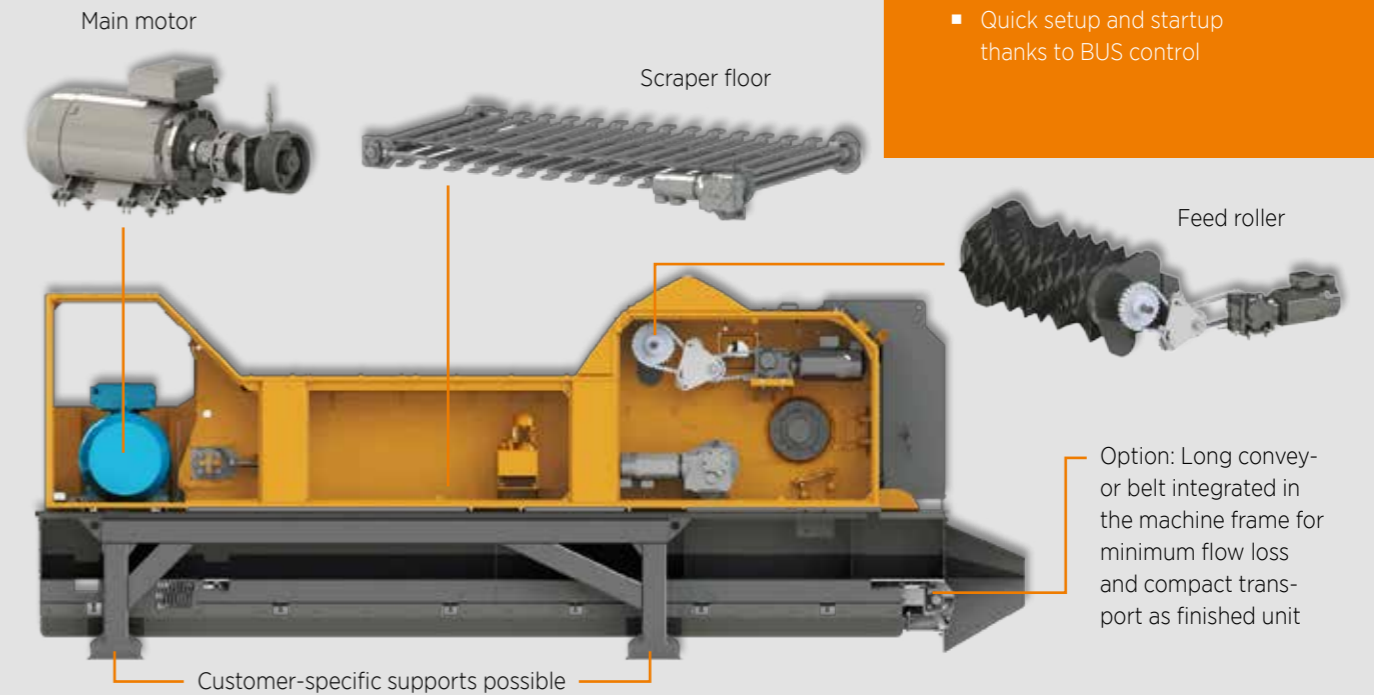
No problem, you can use many spare and wear parts in both machines. This means that you have a maximum range of shredding tools at your disposal.

Doppstadt offers the right concept for every application. With the feed bunker, our AK series in particular provides you maximum possibilities to supplement the system's material flow by means of direct feed or to omit upstream system components, depending on the desired task.



CONTACT US WITH REGARD TO YOUR REQUIREMENTS!

DOPPSTADT DRIVE CONCEPT VE - FULLY ELECTRIC



- Frequency-controlled drives on main engine, feed rollers and scraper floor with low starting currents
- High-quality switching cabinets, frequency inverter and 3-phase motors
- Quick setup and startup thanks to BUS control

DO YOU HAVE LITTLE SPACE AT YOUR LOCATION?

And do not want to have any accessibility problems to your machine? Then select Doppstadt's optional "folding door concept" for your shredder!



DOPPSTADT'S SAFETY CONCEPT

Doppstadt assumes responsibility so that you can operate your system without any worries. As a result, our machines are equipped with the "D" Performance Level. Quality and safety safeguard your operations!

We combine the highest-quality 2-channel door locking systems and emergency stop systems with a BUS system to ensure that the emergency stop chain reliably engages in the event of an emergency.

DO YOU WANT CALCULABLE COSTS?

No problem with Doppstadt! Contact us with regard to our maintenance agreements. We take care of your machinery so that you can concentrate on your business!

PRECISELY AND FLEXIBLY CONTROL YOUR STATIONARY MACHINES WITH OUR DOPPSTADT OPERATING CONCEPT!



- Extensive machine settings implemented via the the control panel with the swivelling arm
- Safe control during maintenance work
- Extensive machine integration in system concepts with common BUS communication
- Optimum monitoring and control of operations with Doppstadt's radio systems

DOPPSTADT'S SYSTEM CONCEPT

Our individual concepts and solutions
for your applications

WASTE WOOD PROCESSING



- Efficient processing of waste wood by means of prescreening after the slow-speed shredder

- Maximum end product quality through using 3D baskets in AK



SAMPLE PROCEDURE FOR PROCESSING WASTE WOOD WITH THE AK 540 VE

- Preshredding with a machine from the CERON series
- Removal of Fe metals with the aid of an overbelt magnet
- Coarse fraction screening with a star screening deck from the DST series
- Fines as finished product are directly supplied to a vehicle for transport
- Coarse fractions are finely ground to the finished end product after screening with the AK 540 VE and then conveyed to the transport vehicle

DOPPSTADT'S SYSTEM CONCEPT

Our individual concepts and solutions
for your applications

COMPOSTING

GREEN WASTE COMPOSTING
BIO-WASTE COMPOSTING



- Economical removal of contaminants

SAMPLE PROCEDURE FOR COMPOSTING WITH THE AK 235 E

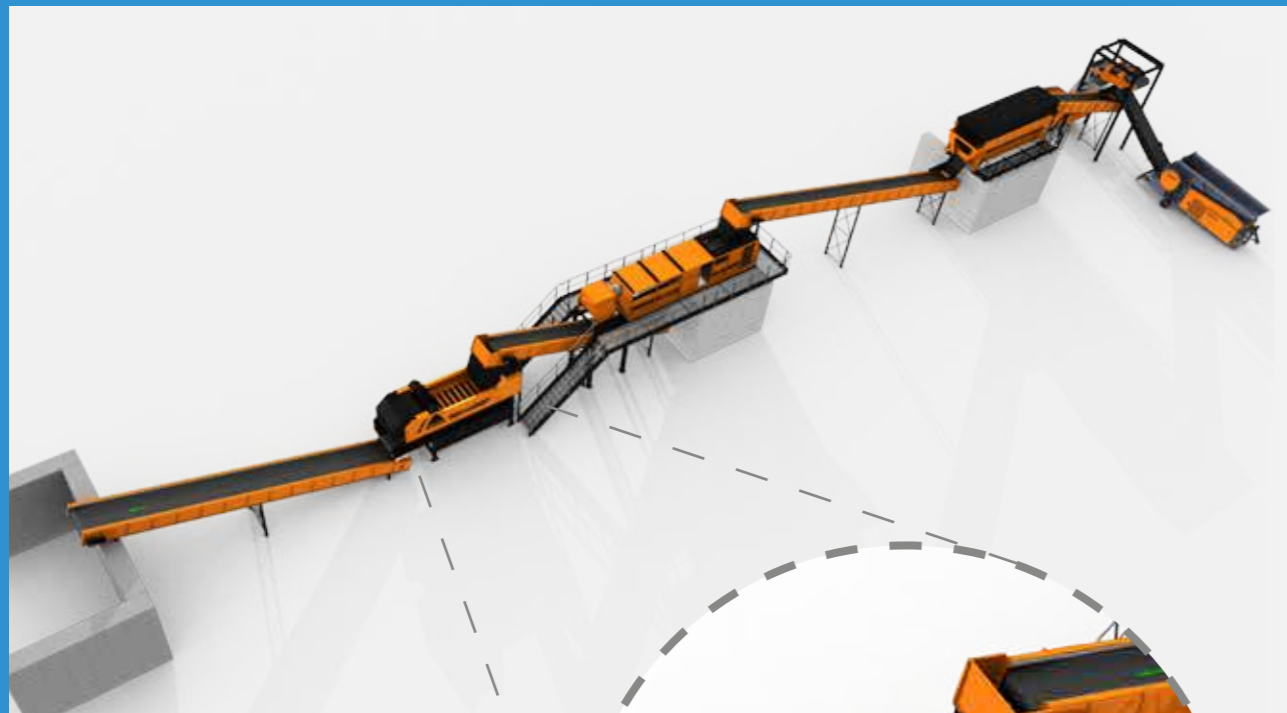
- Foil-friendly preshredding or ripping of bags with a machine from the CERON series
- Removal of Fe metals with the aid of an overbelt magnet
- Coarse fraction screening with a tendency to wrap (films, nets, etc.) with a spiral shaft screening deck from the Splitter Unit series
- Fines as finished product are directly supplied to the bunker
- Large fractions are supplied to an air separator from Doppstadt's WS series, for separation of lightweight contaminants (2D light)
- Contaminant-free large fractions are then finely ground to the finished end product via the AK 235 E and then discharged to the bunker and are then ready for the rotting process/ windrow



DOPPSTADT'S SYSTEM CONCEPT

Our individual concepts and solutions
for your applications

RDF PREPARATION



SAMPLE PROCEDURE FOR PROCESSING OF REFUSE DERIVED FUEL WITH THE AK 235 E

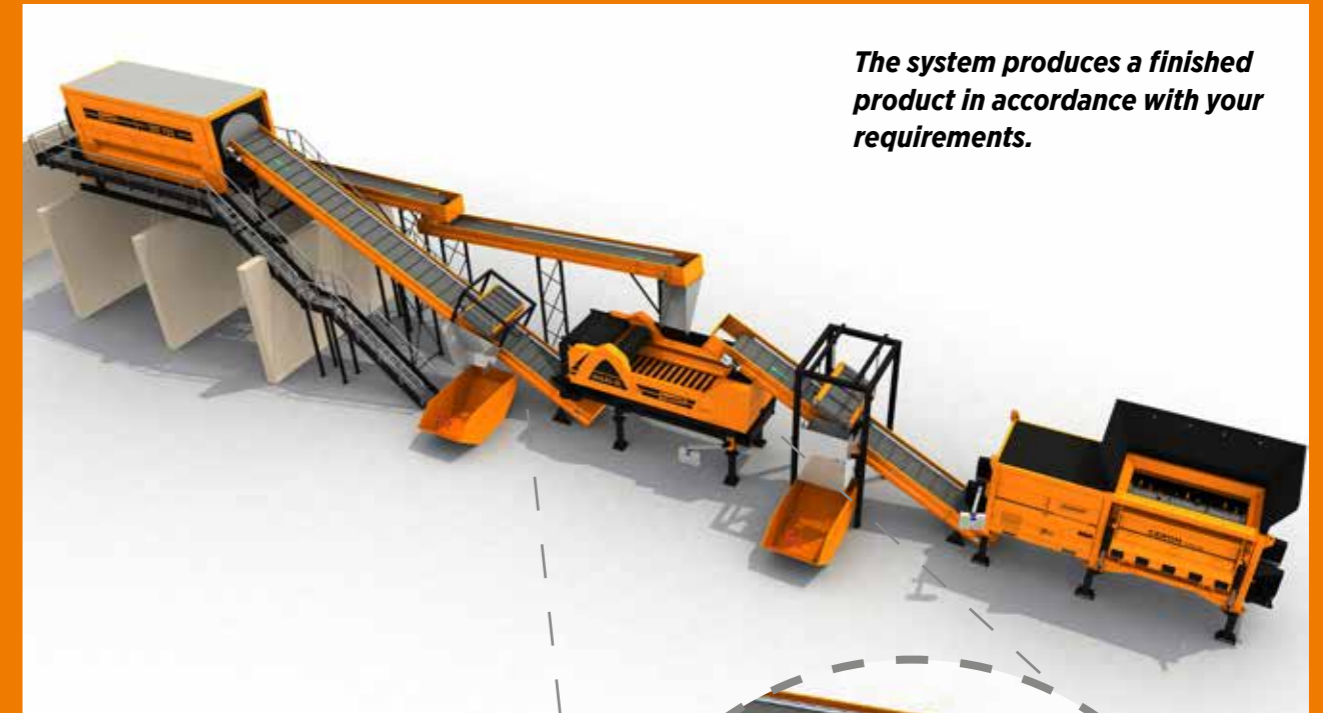
- Preshredding with the METHOR
- Removal of Fe metals with the aid of an overbelt magnet
- Mineral contaminants are removed in the next step by means of screening in a drum screening machine from the SM series
- Oversized particles from the screening drum are directly guided to an air separator from Doppstadt's WS series to separate heavy and lightweight materials
- In the last step, contaminant-free oversized particles are then finely ground using the AK 235 E and provided as end product to the bunker for further processing



DOPPSTADT'S SYSTEM CONCEPT

Our individual concepts and solutions
for your applications

BIOMASS PROCESSING



The system produces a finished product in accordance with your requirements.

SAMPLE PROCEDURE FOR BIOMASS PROCESSING WITH THE AK 640 VE

- Preshredding with a machine from the CERON series
- Removal of Fe metals with the aid of an overbelt magnet
- Preshredded material is finely ground using the AK 640 VE
- Additional removal of Fe metals after fine-shredding with the aid of an overbelt magnet
- Finely shredded materials are separated according to the desired particle size by means of screening in a drum screening machine from the SM series. Oversized particles from the screening drum are recirculated back to the fine-shredding process by means of a return
- After screening, the final contaminant-free end product is available in the bunker for further processing

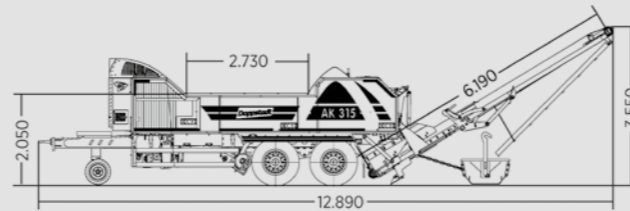


TECHNICAL SPECIFICATIONS AK 315

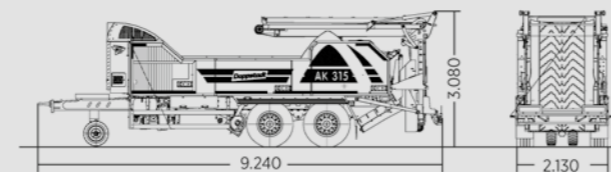
DIMENSIONS	
Chassis	2-axle trailer
Total weight (kg)	16000
Transport length (mm)	9240
Transport width (mm)	2130
Transport height (mm)	3080
Length (mm)	12890
Width (mm)	2130
Height (mm)	3550
ENGINE	
Engine type	Diesel engine
Manufacturer	MTU 6R 1000
Emissions standard	Stage V EPA Tier 4f EIIIA
Motor power (kW / hp)	230 / 310
Tank capacity (l)	300
Torque (Nm)	1300 1250 (EIIIA) at 1200-1600 rpm
DISCHARGE CONVEYOR	
Width (mm)	1500
Length (mm)	6000
Belt speed (m/s)	2
Discharge height (mm)	3550
FLAIL DRUM	
Width (mm)	1470
Diameter (mm)	900
Rotational speed (rpm)	1140 - 1320 (depending on engine speed)
Number of flails / teeth	16/28
FEED HOPPER	
Fill width (mm)	2730
Loading height (mm)	2050
Infeed height (mm)	421



Working position



Transport position

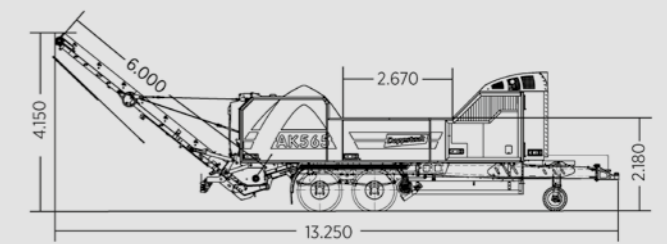


TECHNICAL SPECIFICATIONS AK 565

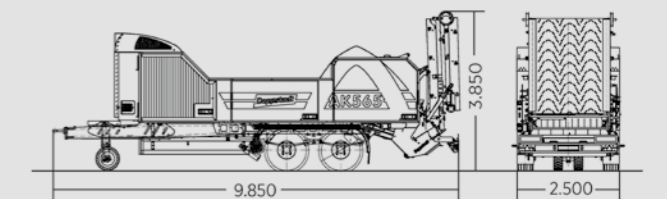
DIMENSIONS	
Chassis	2-axle trailer
Total weight (kg)	19000
Transport length (mm)	9770 or 9850
Transport width (mm)	2500
Transport height (mm)	3960 or 3850
Length (mm)	11780 or 13250
Width (mm)	2500
Height (mm)	3000 or 4150
ENGINE	
Engine type	Diesel engine
Manufacturer	MTU 6R 1300
Emissions standard	Stage V EPA Tier 4f EIIIA
Motor power (kW / hp)	390 / 530
Tank capacity (l)	450 or 600* (*optional)
Torque (Nm)	2600 2460 (EIIIA) at 1300 rpm
DISCHARGE CONVEYOR	
Width (mm)	1800
Length (mm)	4000 or 6000* (*optional)
Belt speed (m/s)	2
Discharge height (mm)	3000 or 4150* (*optional)
FLAIL DRUM	
Width (mm)	1750
Diameter (mm)	1120
Rotational speed (rpm)	850 - 1000 (depending on engine speed)
Number of flails / teeth	36
FEED HOPPER	
Fill width (mm)	2670
Loading height (mm)	2180
Infeed height (mm)	538



Working position



Transport position

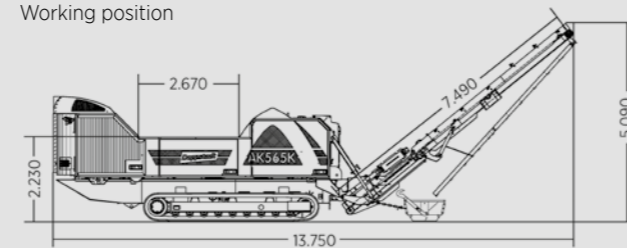


TECHNICAL SPECIFICATIONS AK 565 K

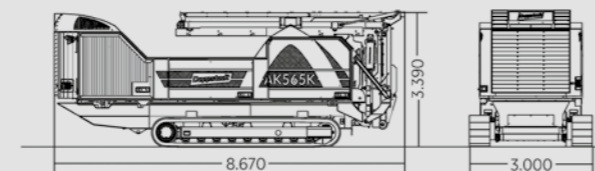
DIMENSIONS	
Chassis	Track-mounted chassis
Total weight (kg)	29000
Transport length (mm)	8670
Transport width (mm)	3000
Transport height (mm)	3390 / 3590 (with off-road chassis)
Length (mm)	13750
Width (mm)	3000
Height (mm)	5090 / 5290 (with off-road chassis)
ENGINE	
Engine type	Diesel engine
Manufacturer	MTU 6R 1300
Emissions standard	Stage V EPA Tier 4f EIIIA
Motor power (kW / hp)	390 / 530
Tank capacity (l)	600
Torque (Nm)	2600 2460 (EIIIA) at 1300 rpm
DISCHARGE CONVEYOR	
Width (mm)	1500
Length (mm)	7500
Belt speed (m/s)	2
Discharge height (mm)	5090
FLAIL DRUM	
Width (mm)	1750
Diameter (mm)	1120
Rotational speed (rpm)	850 - 1000 (depending on engine speed)
Number of flails / teeth	36
FEED HOPPER	
Fill width (mm)	2670
Loading height (mm)	2230 / 2430 (with off-road chassis)
Infeed height (mm)	538



Working position



Transport position

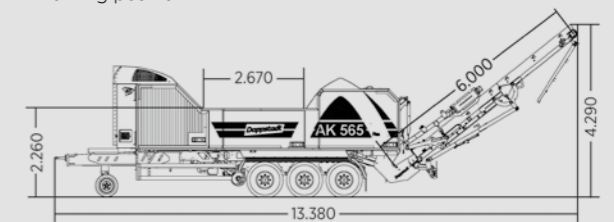


TECHNICAL SPECIFICATIONS AK 565 PLUS

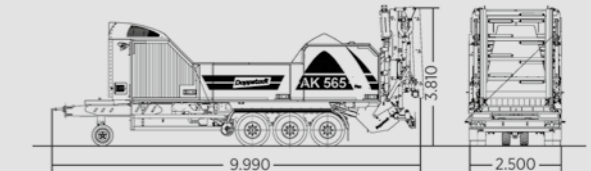
DIMENSIONS	
Chassis	3-axle trailer
Total weight (kg)	22000
Transport length (mm)	9990
Transport width (mm)	2500
Transport height (mm)	3810
Length (mm)	13380
Width (mm)	2500
Height (mm)	4290
ENGINE	
Engine type	Diesel engine
Manufacturer	MTU 6R 1300
Emissions standard	Stage V EPA Tier 4f EIIIA
Motor power (kW / hp)	390 / 530
Tank capacity (l)	600
Torque (Nm)	2600 2460 (EIIIA) at 1300 rpm
DISCHARGE CONVEYOR	
Width (mm)	1800
Length (mm)	6000
Belt speed (m/s)	2
Discharge height (mm)	4290
FLAIL DRUM	
Width (mm)	1750
Diameter (mm)	1120
Rotational speed (rpm)	850 - 1000 (depending on engine speed)
Number of flails / teeth	36
FEED HOPPER	
Fill width (mm)	2670
Loading height (mm)	2260
Infeed height (mm)	538



Working position



Transport position

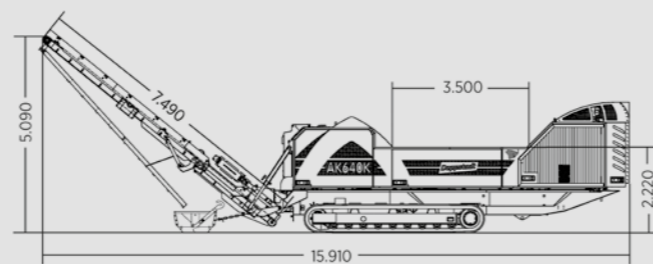


TECHNICAL SPECIFICATIONS AK 640 K

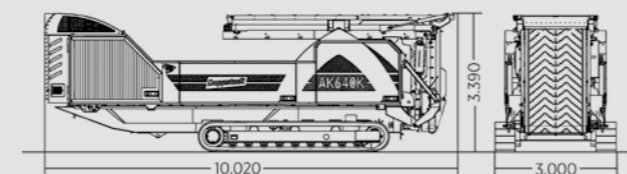
DIMENSIONS	
Chassis	Track-mounted chassis
Total weight (kg)	32500
Transport length (mm)	10020
Transport width (mm)	3000
Transport height (mm)	3390 / 3590 (with off-road chassis)
Length (mm)	15910
Width (mm)	3000
Height (mm)	5090 / 5290 (with off-road chassis)
ENGINE	
Engine type	Diesel engine
Manufacturer	MTU 6R 1500
Emissions standard	Stage V EPA Tier 4f EIIIA
Motor power (kW / hp)	480 / 652 460 / 625 (EIIIA)
Tank capacity (l)	750
Torque (Nm)	3100 2900 (EIIIA) at 1300 rpm
DISCHARGE CONVEYOR	
Width (mm)	1500
Length (mm)	7500
Belt speed (m/s)	2
Discharge height (mm)	5090
FLAIL DRUM	
Width (mm)	1750
Diameter (mm)	1120
Rotational speed (rpm)	970 - 1140 (depending on engine speed)
Number of flails / teeth	36
FEED HOPPER	
Fill width (mm)	3500
Loading height (mm)	2220 / 2420 (with off-road chassis)
Infeed height (mm)	538



Working position



Transport position

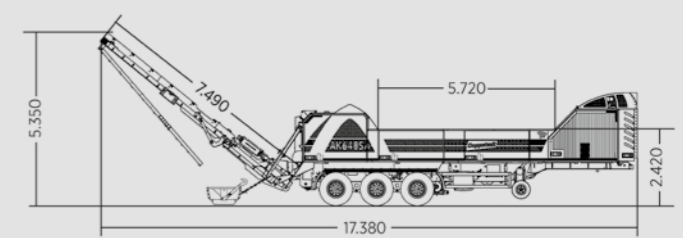


TECHNICAL SPECIFICATIONS AK 640 SA

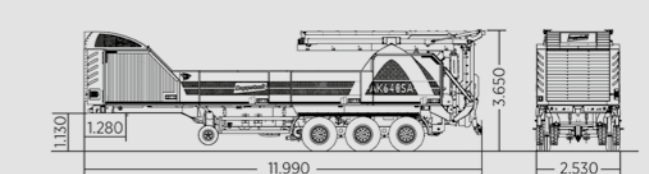
DIMENSIONS	
Chassis	Semi-trailer
Total weight (kg)	32000
Transport length (mm)	11990
Transport width (mm)	2530
Transport height (mm)	3650
Length (mm)	17380
Width (mm)	2530
Height (mm)	5350
ENGINE	
Engine type	Diesel engine
Manufacturer	MTU 6R 1500
Emissions standard	Stage V EPA Tier 4f EIIIA
Motor power (kW / hp)	480 / 652 460 / 625 (EIIIA)
Tank capacity (l)	900
Torque (Nm)	3100 2900 (EIIIA) at 1300 rpm
DISCHARGE CONVEYOR	
Width (mm)	1500
Length (mm)	7500
Belt speed (m/s)	2
Discharge height (mm)	5350
FLAIL DRUM	
Width (mm)	1750
Diameter (mm)	1120
Rotational speed (rpm)	970 - 1140 (depending on engine speed)
Number of flails / teeth	36
FEED HOPPER	
Fill width (mm)	5720
Loading height (mm)	2420
Infeed height (mm)	538



Working position



Transport position



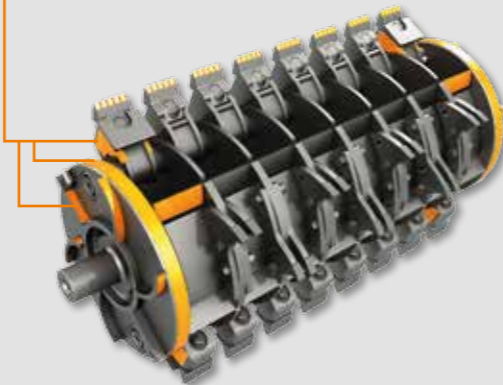
TECHNICAL SPECIFICATIONS AK 235 E

DIMENSIONS	
Chassis	Stationary
Total weight (kg)	approx. 11000
Length (mm)	6390
Width (mm)	2090
Height (mm)	1770
ENGINE	
Engine type	Three-phase motor with frequency inverter
Manufacturer	ABB
Motor power (kW / hp)	160 / 218
Installed power (kW)	175
Torque (Nm)	1026
Rated current (A)	320
Energy efficiency	IE3
DISCHARGE CONVEYOR	
Width (mm)	1200
Length (mm)	5000
Belt speed (m/s)	0.5
FLAIL DRUM	
Width (mm)	1430
Diameter (mm)	900
Rotational speed (rpm)	1160
Number of flails / teeth	16/28
FEED HOPPER	
Fill width (mm)	2900
Loading height (mm)	2850 using a 1920 mm machine frame
Infeed height (mm)	421



NOW WITH NEW GRINDING ROTOR FROM AK 315:

- WITH DOPP-LOCK® FLAIL SYSTEM
- NEW TEETH GEOMETRY AND
- ADDITIONAL WEAR PROTECTION



SPECIFICATIONS AK 440 / 540 / 640 VE

DIMENSIONS			
Chassis	Stationary		
Total weight (kg)	approx. 22700		
Length (mm)	7883		
Width (mm)	2630		
Height (mm)	3052 including 1090 mm subframe		
ENGINE			
Engine type	Three-phase motor with frequency inverter		
Manufacturer	ABB		
Motor power (kW / hp)	250 / 340	315 / 428	450 / 612
Installed power (kW)	265	330	465
Torque (Nm)	1605	2021	2884
Rated current (A)	487	603	824
Energy efficiency	IE2	IE2	IE3
DISCHARGE CONVEYOR			
Width (mm)	1600		
Length (mm)	6000		
Belt speed (m/s)	0.5		
FLAIL DRUM			
Width (mm)	1770		
Diameter (mm)	1100		
Rotational speed (rpm)	1040		
Number of flails / teeth	36		
FEED HOPPER			
Fill width (mm)	2650		
Loading height (mm)	2280 including 1090 mm subframe		
Infeed height (mm)	538		



TECHNICAL SPECIFICATIONS AK 640 L VE

DIMENSIONS	
Chassis	Stationary
Total weight (kg)	approx. 26500
Length (mm)	10288
Width (mm)	2554
Height (mm)	3052 including 1090 mm subframe
ENGINE	
Engine type	Three-phase motor with frequency inverter
Manufacturer	ABB
Motor power (kW / hp)	450 / 612
Installed power (kW)	467
Torque (Nm)	2884
Rated current (A)	828
Energy efficiency	IE3
DISCHARGE CONVEYOR	
Width (mm)	1600
Length (mm)	9000
Belt speed (m/s)	0.5
FLAIL DRUM	
Width (mm)	1770
Diameter (mm)	1100
Rotational speed (rpm)	910
Number of flails / teeth	36
FEED HOPPER	
Fill width (mm)	5723
Loading height (mm)	2280 including 1090 mm subframe
Infeed height (mm)	538



TECHNICAL SPECIFICATIONS NZ 180 VE

DIMENSIONS			
Chassis	Stationary		
Total weight (kg)	approx. 14760		
Length (mm)	4470		
Width (mm)	2730		
Height (mm)	1970		
ENGINE			
Engine type	Three-phase motor with frequency inverter		
Manufacturer	ABB		
Motor power (kW / hp)	250 / 340	315 / 428	450 / 612
Installed power (kW)	265	330	465
Torque (Nm)	1605	2021	2884
Rated current (A)	473	585	823
Energy efficiency	IE2	IE2	IE3
FLAIL DRUM			
Width (mm)	1770		
Diameter (mm)	1100		
Rotational speed (rpm)	1040		
Number of flails / teeth	36		
FEED HOPPER			
Fill width (mm)	616		
Loading height (mm)	3380 including 1399 mm subframe		
Infeed height (mm)	538		



Future built in as standard – powerful solutions for fine shredding

- State-of-the-art engine and emissions control technology with high performance
- Quick and easy access for maintenance, service and retrofitting with the aid of the rear belt that can be lowered almost completely to the ground
- Highest quality flail tips with patented Dopp-Lock® fastening technology
- Separate patented drive unit for scraper floor and feed roller for optimum intake of materials and high throughput
- Tracked chassis in optional “off-road” version
- Competence in mobile and stationary material processing
- Wide variety of solutions for your applications



September 2020



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