

AK SERIES Grinders



AK 235
AK 435
AK 435 K
AK 535
AK 635
AK 635 SA

Doppstadt

WE CARE

AK SERIES



POWERFUL AND VERSATILE

THE AK SERIES - RELIABLE GRINDERS

The high throughput and the patented load-sensing material feed permit using the machine for various grinding tasks. Whatever your application: With the AK you will achieve an optimum and efficient recovery of secondary raw materials.

The Doppstadt grinders stand out for their free-swinging flail holders with separately replaceable wearing tools and the heavy gyrating mass of the flail drum working at approx. 1,000 rpm.

- Easy maintenance thanks to large protection doors on all sides and central lubrication.
- Separate drives for scraper floor and feed-in roller optimizing the material feeding and the throughput.
- Hydraulic support, controlled without engine power by an electric 24 Volt pump.
- Short setup times (<10 min.) thanks to the hydraulically foldable discharge conveyor*, optional magnetic pulley for Fe-separation*.

Waste wood processing (shredding and grinding with DW 3060 and AK 635)



Road transport



Moving the machine



*option

AK SERIES IN OPERATION



Grinding of waste wood / pallets

ONE GRINDER - MANY POSSIBLE APPLICATIONS

MATERIALS AND APPLICATIONS

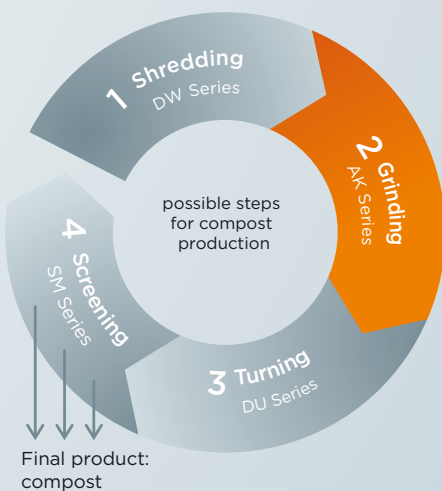
The AK grinders process green waste, yard waste, biowaste, pre-shredded logs and roots, waste wood and wooden pallets.

For special applications, the AK grinders can ideally be combined with other DOPPSTADT products, such as shredders or screens. We will be pleased to give you advice.

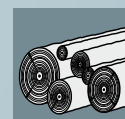
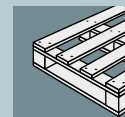
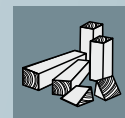


Grinding of green waste

COMPOSTING, WASTE WOOD PROCESSING



Optional: Fe-separation, wind-sifting, further processing



pre-shredded



pre-shredded

AK SERIES



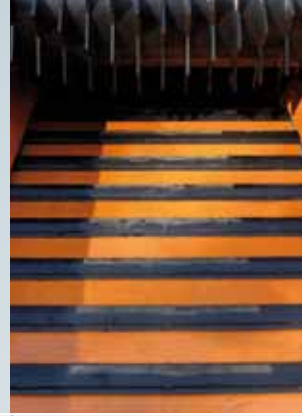
SLIP-ON COUPLING

By means of the slip-on coupling the machine can be moved with the wheel loader grab (only for machines with drawbar).



HINGED COOLER

The hinged cooler is easily accessible and self-cleaning by the reversible large fan wheel. Thanks to the low ventilator speed the noise level is pleasantly quiet.



SCRAPER FLOOR

The patented, load-sensing scraper floor transports the material to the feed-in roller.



FEED-IN ROLLER

The reversible feed-in roller with bearing feeds the material evenly to the grinding chamber.



MAINTENANCE

Large doors for optimal maintenance.



HYDRAULIC DRIVE

The machine can be moved by means of the hydraulic self-propelled drive*.

*option



FLAIL DRUM WITH FREE-SWINGING FLAILS

The large flail drum with its approx. weight of 2,5t (5,512lb) gyrating mass grinds the materials. The free-swinging flail holders with easily replaceable tips are resistant against contaminants. The tips can be chosen according to the material.



GRINDING BASKET

The grain size can be determined by choosing among grinding baskets with mesh sizes between 30 mm and 400 mm (1.18 - 15.75"). With the quick-changing system it takes only 15 minutes to change the baskets.



REMOTE CONTROL

Easy operation - e.g. by wheel loader operator, exact adjustment and reading of the machine data by multifunction display. Machine operation by 18-channel remote control*.

BAFFLE PLATE

A baffle plate with teeth supports the grinding process.



REAR CONVEYOR

The material is discharged by the rear conveyor. It is also possible to separate iron by means of a magnetic pulley* or an overband magnet*.



AK SERIES



AK SERIES

MAIN ADVANTAGES

- continuous grinding by means of load-sensing material in-feed
- resistant against contaminants thanks to free-swinging flails
- individually replaceable wearing tools (flails)
- quick-changing system for grinding basket
- minimized dust and noise emissions in the drive area thanks to the separation of drive and grinding unit
- can be combined with other Doppstadt products
- one-man operation (remote control of all main functions)



AK 235



Bark



Waste wood



Green waste

AK 235

The flail drum weight of the AK 235 is approx. 1,3 t (2,866 lb). It is equipped with 16 free-swinging flails and 28 teeth and it rotates at approx. 1,200 rpm. For the replaceable grinding basket there are mesh sizes from 30 – 320 mm (1.2 – 12.6") available.

Permissible weight	15,000 kg (33,069 lb)	
Drive	diesel engine	Mercedes-Benz OM 926 LA
	power	175 kW (239 hp) at 2,200 rpm
Flail drum	width	1,480 mm (4'10")
	diameter	900 mm (2'11")
	flails/teeth	16/28
Transport dimensions L/W/H	9,230/2,090/3,100 mm (30'3"/6'10"/10'12")	



Shrubs

AK 435



Pallets



Waste wood



Bark

AK 435

The flail drum weight of the AK 435 is approx. 2.5 t (5,512 lb) and it rotates at approx. 1,000 rpm. The replaceable grinding basket can be equipped with mesh sizes from 30 - 320 mm (1.2 - 11.02").

Permissible weight	19,000 kg (41,888 lb)	
Drive	diesel engine	Mercedes-Benz OM 460 LA
	power	315 kW (428 hp) at 2,000 rpm
Flail drum	width	1,750 mm (5' 9")
	diameter	1,100 mm (3' 7")
	no. of flails	36
Transport dimensions	L / W / H	9,700 / 2,500 / 3,960 mm (31' 10" / 8' 2" / 13')



Green waste

AK 435 K



Picture: machine without rear conveyor

Green waste



Picture: machine without rear conveyor

Root timber



Picture: machine without rear conveyor

Log and root timber

AK 435 K

The AK 435 K is equal to the AK 435, but on tracks with hydraulic drive.

Total weight	approx. 29,000 kg (63,934 lb)	
Drive	diesel engine	Mercedes-Benz OM 460 LA
	power	315 kW (428 hp) at 2,000 rpm
Flail drum	width	1,750 mm (5' 9")
	diameter	1,100 mm (3' 7")
	no. of flails	36
Transport dimensions	L / W / H	8,680 / 3,000 / 3,390 mm (28' 6" / 9' 10" / 11' 1")



Picture: machine without rear conveyor

Shrubs

AK 535



Green waste



Waste wood



Shrubs

AK 535

The flail drum weight of the AK 535 is approx. 2,5 t (5,512 lb) and it rotates at approx. 1,000 rpm. The permissible weight of the central-axle trailer chassis with 3 axles is 22,000 kg.

Permissible weight	22,000 kg (48,502 lb)	
Drive	diesel engine	Mercedes-Benz OM 460 LA
	power	375 kW (510 hp) at 2,000 rpm
Flail drum	width	1,750 mm (5' 9")
	diameter	1,100 mm (3' 7")
	no. of flails	36
Transport dimensions L/W/H	9,885/2,500/3,750 mm (32' 5"/8' 2"/12' 4")	



Pallets

AK 635



AK 635

The flail drum weight of the AK 530 is approx. 2,5 t (5,512 lb) and it rotates at approx. 1,000 rpm. The grinding basket can be equipped with mesh sizes from 30 – 320 mm (1.2 – 11.02”).

Permissible weight	25,000 kg (55,116 lb)	
Drive	diesel engine	Mercedes-Benz OM 502 LA
	power	440 kW (598 hp) at 2,000 rpm
Flail drum	width	1,750 mm (5' 9")
	diameter	1,100 mm (3' 7")
	no. of flails	36
Transport dimensions	L / W / H	11,200 / 2,500 / 3,750 mm (36' 9" / 8' 2" / 12' 4")



Green waste



Waste wood



Shrubs



Pallets

AK 635 SA



Waste wood



Plywood



Shrubs

AK 635 SA

The flail drum weight of the AK 635 SA is approx. 2.5 t (5,512 lb) and it rotates at approx. 1,000 rpm. The grinding basket can be equipped with mesh sizes from 30 - 320 mm (1.2 - 11.02").

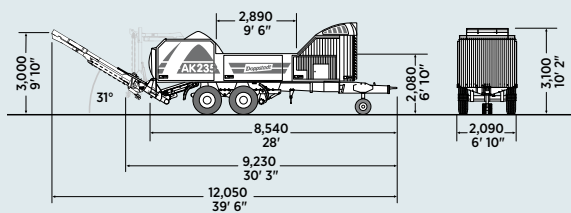
Permissible weight	30,000 kg (66,139 lb)	
Drive	diesel engine	Mercedes-Benz OM 502 LA
	power	440 kW (598 hp) at 2,000 rpm
Flail drum	width	1,750 mm (5' 9")
	diameter	1,100 mm (3' 7")
	no. of flails	36
Transport dimensions L / W / H	12,410 / 2,500 / 3,930 mm (40' 9" / 8' 2" / 12' 11")	



Green waste

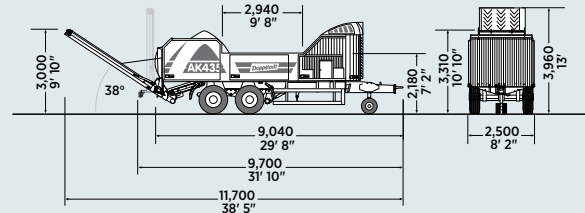
TECHNICAL DATA AK SERIES

AK 235



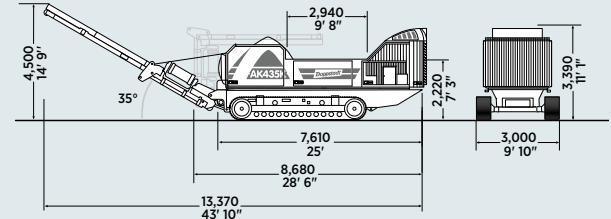
Transport dimensions L/W/H: 9,230/2,090/3,100 (30' 3"/6' 10"/10' 2")

AK 435



Transport dimensions L/W/H: 9,700/2,500/3,960 (31' 10"/8' 2"/13')

AK 435 K

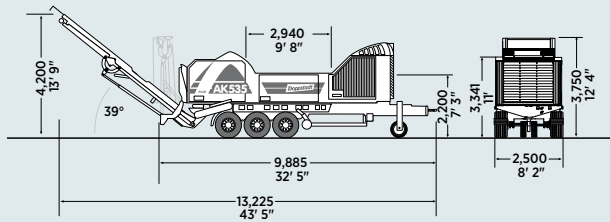


Transport dimensions L/W/H: 8,680/3,000/3,390 (28' 6"/9' 10"/11' 1")

Model	AK 235	AK 435	AK 435 K
Weight	max. 15,000 kg (33,069 lb)	max. 19,000 kg (41,888 lb)	approx. 29,000 kg (63,934 lb)
Chassis	central-axle trailer chassis with 2 axles, for 80 km/h (50 mph), with ABS	central-axle trailer chassis with 2 axles, for 80 km/h (50 mph), with ABS	track drive with two speeds
Drive	diesel engine (optional electric motor)	diesel engine (optional electric motor)	diesel engine
Type	Mercedes-Benz OM 926 LA	Mercedes-Benz OM 460 LA	Mercedes-Benz OM 460 LA
Power	175 kW (239 hp) at 2,200 rpm	315 kW (428 hp) at 2,000 rpm	315 kW (428 hp) at 2,000 rpm
max. torque	850 Nm at 1,200 - 1,600 rpm	2,100 Nm at 1,300 rpm	2,100 Nm at 1,300 rpm
Exhaust level	EUROMOT III B	EUROMOT III B	EUROMOT III B
Fuel tank	215 l (57 gal)	450 l (119 gal)	450 l (119 gal)
Flail drum			
Width	1,480 (4' 10")	1,750 (5' 9")	1,750 (5' 9")
Diameter	900 (2' 11")	1,100 (3' 7")	1,100 (3' 7")
Weight (with flail tips)	approx. 1,310 kg (2,888 lb)	approx. 2,500 kg (5,512 lb)	approx. 2,500 kg (5,512 lb)
Speed (depending on engine speed)	1,140 - 1,320 rpm	850 - 1,000 rpm	850 - 1,000 rpm
No. of flails/teeth	16/28	36	36
Flail weight (incl. tip)	approx. 14.5 kg (31 lb)	approx. 14.5 kg (31 lb)	approx. 14.5 kg (31 lb)
max. infeed height	530 (1' 9")	650 (2' 2")	650 (2' 2")
Discharge conveyor			
Length	5,250 (17' 3")	4,000 (13' 1")	7,000 (23')
Width	1,500 (4' 11")	1,800 (5' 11")	1,500 (4' 11")
Belt speed	2.1 m/s (6' 11"/s)	2.25 m/s (7' 5"/s)	2.25 m/s (7' 5"/s)
Discharge height	3,000 (9' 10")	3,000 (9' 10")	4,500 (14' 9")
Standard equipment	grinding basket, available mesh sizes 30 - 320 (1.2 - 11.02") or re-grinding comb with hood	grinding basket, available mesh sizes 30 - 320 (1.2 - 11.02"), remote control	grinding basket, available mesh sizes 30 - 320 (1.2 - 11.02"), additional hydraulic connection
Options	remote control, additional hydraulic connection, twin drive, magnetic pulley, overband magnet, damping facility	additional hydraulic connection, magnetic pulley, overband magnet, twin drive, damping facility	remote control, overband magnet, magnetic pulley, twin drive, damping facility

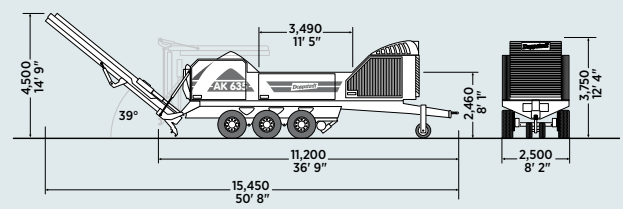
As of April 2012 - subject to technical alterations. The specifications are approximate. Illustrations and descriptions may include options that are not part of the standard equipment.

AK 535



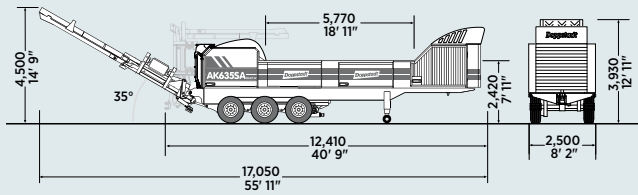
Transport dimensions L/W/H: 9,885/2,500/3,750 (32' 5"/8' 2"/12' 4")

AK 635



Transport dimensions L/W/H: 11,200/2,500/3,750 (36' 9"/8' 2"/12' 4")

AK 635 SA



Transport dimensions L/W/H: 12,410/2,500/3,930 (40' 9"/8' 2"/12' 11")

AK 535

AK 635

AK 635 SA

max. 22,000 kg (48,502 lb)

max. 25,000 kg (55,116 lb)

max. 30,000 kg (66,139 lb)

central-axle trailer chassis with 3 axles, for 80 km/h (50 mph), with ABS

central-axle trailer chassis with 3 axles, for 80 km/h (50 mph), with ABS

3-axle-semitrailer chassis, for 80 km/h (50 mph), with ABS

diesel engine

diesel engine

diesel engine

Mercedes-Benz OM 460 LA

Mercedes-Benz OM 502 LA

Mercedes-Benz OM 502 LA

375 kW (510 hp) at 2,000 rpm

440 kW (598 hp) at 2,000 rpm

440 kW (598 hp) at 2,000 rpm

2,200 Nm at 1,300 rpm

2,800 Nm at 1,300 rpm

2,800 Nm at 1,300 rpm

EUROMOT III B

EUROMOT III B

EUROMOT III B

600 l / 159 gal

750 l (198 gal)

900 l (238 gal)

1,750 (5' 9")

1,750 (5' 9")

1,750 (5' 9")

1,100 (3' 7")

1,100 (3' 7")

1,100 (3' 7")

approx. 2,500 kg (5,512 lb)

approx. 2,500 kg (5,512 lb)

approx. 2,500 kg (5,512 lb)

850 - 1,000 rpm

970 - 1,140 rpm

970 - 1,140 rpm

36

36

36

approx. 14.5 kg (31 lb)

approx. 14.5 kg (31 lb)

approx. 14.5 kg (31 lb)

650 (2' 2")

650 (2' 2")

650 (2' 2")

6,000 (19' 8")

6,150 (20' 2")

7,000 (23')

1,800 (5' 11")

1,500 (4' 11")

1,500 (4' 11")

2.25 m/s (7' 5"/s)

2.25 m/s (7' 5"/s)

2.1 m/s (6' 11"/s)

4,200 (13' 9")

4,500 (14' 9")

4,500 (14' 9")

additional hydraulic connection, remote control, grinding basket, available mesh sizes 30 - 320 (1.2 - 11.02"), twin drive

additional hydraulic connection, remote control, grinding basket, available mesh sizes 30 - 320 (1.2 - 11.02"), twin drive

additional hydraulic connection, remote control, grinding basket, available mesh sizes 30 - 320 (1.2 - 11.02"), rear conveyor, twin drive, damping facility

hydraulic self-propelled drive, overband magnet, magnetic pulley, damping facility

hydraulic self-propelled drive, overband magnet, magnetic pulley, damping facility

overband magnet, magnetic pulley

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