

# AK SERIES Grinders



AK 230  
AK 430  
AK 430 K  
AK 530  
AK 630

**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. 1000 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 motor power by an electric 24 Volt pump
- Short setup times (<10 min.) thanks to the hydraulically foldable discharge conveyor\*, optional magnetic drum for FE-separation\*

Waste wood processing (shredding and grinding)



Road transport



Moving the machine



\*Option

# AK SERIES IN OPERATION



Grinding of waste wood / pallets

## ONE GRINDER - MANY POSSIBLE APPLICATIONS

### MATERIALS AND APPLICATIONS

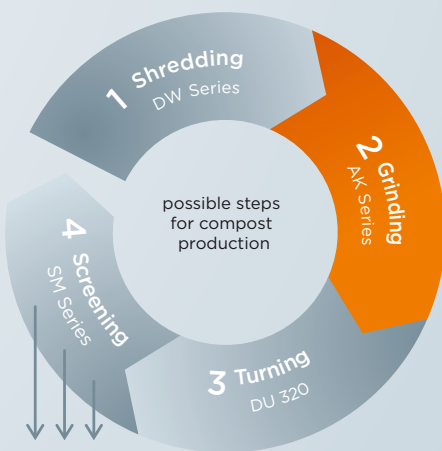
The AK grinders process green waste, yard waste, biowaste, pre-shredded log and root timber, waste wood and wooden pallets.

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.

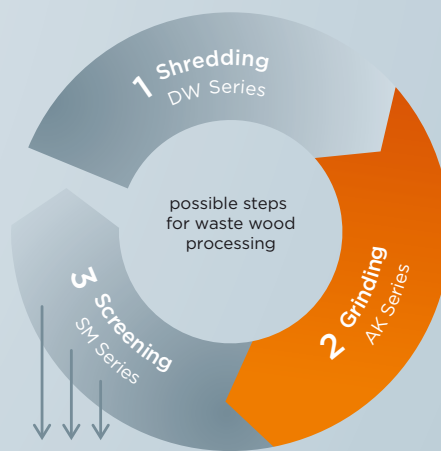


Grinding green waste

### COMPOSTING, WASTE WOOD PROCESSING

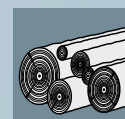
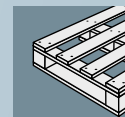
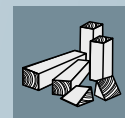


Final product: compost



Final product: thermal utilization and recycling

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



pre-shredded



pre-shredded

# AK SERIES



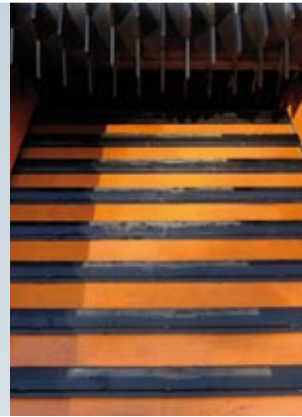
## SLIP-ON COUPLING

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



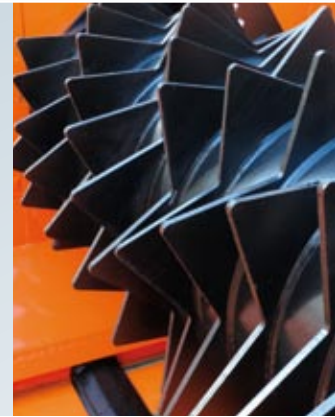
## HINGED COOLER

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 oscillating mounted feed-in roller with reversing function pulls the material continuously to the grinding chamber.



## MAINTENANCE

Large doors for optimum 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 appr. 2,5t 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. With our quick-changing system it takes only 15 minutes to change the baskets.



### REMOTE CONTROL, CONTROL PANEL

All the functions of the machine can be controlled with the 16-channel remote control\*, e.g. by the wheel loader operator.

### 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 drum\* or an overband magnet\*.



# AK SERIES



## AK SERIES

### MAIN ADVANTAGES

- continuous grinding by means of load-sensing material infeed
- 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 the main functions)



# AK 230



Bark



Waste wood



Green waste

## AK 230

The flail drum weight of the AK 230 is approx. 1,3 t. 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 available.

<b>Gross vehicle weight</b>	15.000 kg	
<b>Drive</b>	motor type	Mercedes-Benz OM 906 LA
	power	150 kW (204 hp) at 2.200 rpm
<b>Flail drum</b>	width	1.480 mm
	diameter	900 mm
	flails/teeth	16/28
<b>Transport dimensions L/W/H</b>	9.230/2.090/3.100 mm	



Shrubs



# AK 430



Pallets



Waste wood



Bark

## AK 430

The flail drum weight of the AK 430 is approx. 2,5 t and it rotates at approx. 1.000 rpm. The replaceable grinding basket can be equipped with mesh sizes from 30 - 400 mm.

<b>Gross vehicle weight</b>	19.000 kg	
<b>Drive</b>	motor type	Daimler OM 460 LA
	power	315 kW (428 hp) at 2.000 rpm
<b>Flail drum</b>	width	1.480 mm
	diameter	900 mm
	no. of flails	36
<b>Transport dimensions L/W/H</b>	9.700/2.500/3.960 mm	



Green waste

# AK 430 K



Green waste



Root timber



Log and root timber

## AK 430 K

The AK 430 K is similar to the AK 430, but it has a tracklaying chassis with hydraulic drive.

<b>Gross vehicle weight</b>	28.500 kg	
<b>Drive</b>	motor type	Daimler OM 906 LA
	power	315 kW (428 hp) at 2.000 rpm
<b>Schlegeltrommel</b>	width	1.750 mm
	diameter	1.100 mm
	no. of flails	36
<b>Transport dimensions L/W/H</b>	8.680 / 3.000 / 3.390 mm	



Shrubs

# AK 530



Green waste



Waste wood



Shrubs

## AK 530

The flail drum weight of the AK 530 is approx. 2,5 t and it rotates at approx. 1.000 rpm. The grinding basket can be equipped with mesh sizes from 30-400 mm.

<b>Gross vehicle weight</b>	25.000 kg	
<b>Drive</b>	motor type	Mercedes-Benz OM 502 LA
	power	390 kW (530 hp) at 2.000 rpm
<b>Schlegeltrommel</b>	width	1.750 mm
	diameter	1.100 mm
	no. of flails	36
<b>Transport dimensions L/W/H</b>	11.200/2.500/3.750 mm	



Pallets

# AK 630



Waste wood



Plywood



Shrubs

## AK 630

The flail drum weight of the AK 630 is approx. 2,5 t and it rotates at approx. 1.000 rpm. The grinding basket can be equipped with mesh sizes from 30 - 400 mm.

<b>Gross vehicle weight</b>	30.000 kg	
<b>Drive</b>	motor type	Mercedes-Benz OM 502 LA
	power	450 kW (612 hp) at 2.000 rpm
<b>Flail drum</b>	width	1.750 mm
	diameter	1.100 mm
	no. of flails	36
<b>Transport dimensions L/W/H</b>	12.410/2.500/3.930 mm	

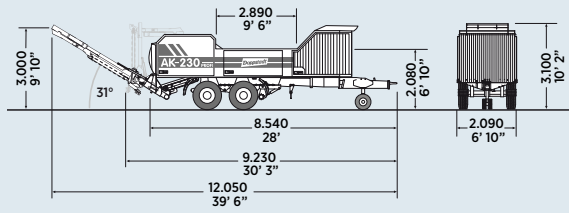


Green waste



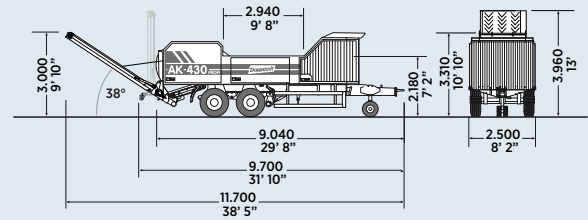
# TECHNICAL DATA AK SERIES

## AK 230



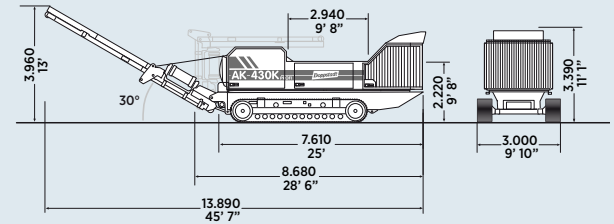
Transport dimensions L/W/H: 9.230/2.090/3.100

## AK 430



Transport dimensions L/W/H: 9.700/2.500/3.960

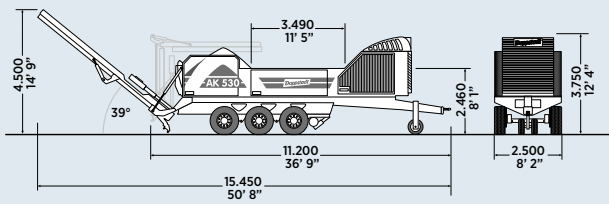
## AK 430 K



Transport dimensions L/W/H: 8.680/3.000/3.390

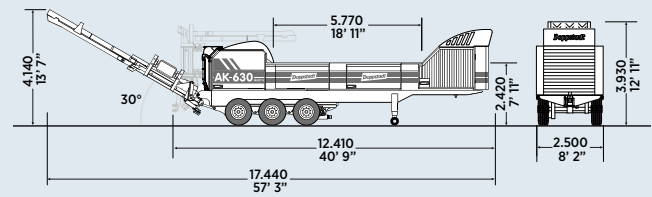
Model	AK 230	AK 430
<b>Gross vehicle weight</b>	15.000 kg	19.000 kg
<b>Chassis</b>	2-central-axle trailer chassis, for 80 km/h according to StVZO, with ABS	2-central-axle trailer chassis, for 80 km/h according to StVZO, with ABS
<b>Drive</b>	Diesel motor (optional electric motor)	Diesel motor (optional electric motor)
<b>Type</b>	Mercedes-Benz OM 906 LA	Mercedes-Benz OM 460 LA
<b>Power</b>	150 kW (204 hp) at 2.200 rpm	315 kW (428 hp) at 2.000 rpm
<b>max. torque</b>	750 Nm at 1.200 - 1.600 rpm	2.000 Nm at 1.300 rpm
<b>Exhaust level</b>	EUROMOT III A	EUROMOT III A
<b>Fuel tank</b>	215 l	450 l
<b>Flail drum</b>		
<b>Width</b>	1.480 mm	1.750 mm
<b>Diameter</b>	900 mm	1.100 mm
<b>Weight (with flail tips)</b>	ca. 1.310 kg	ca. 2.500 kg
<b>Speed</b>	1.140 - 1.320 rpm (depending on the motor speed)	850 - 1.000 rpm (depending on the motor speed)
<b>No. of flails/teeth</b>	16/28	36
<b>Flail weight (incl. tip)</b>	ca. 14,5 kg	ca. 14,5 kg
<b>max. infeed height</b>	530 mm	650 mm
<b>Discharge conveyor</b>		
<b>Length</b>	5.250 mm	4.000 mm
<b>Width</b>	1.500 mm	1.800 mm
<b>Belt speed</b>	2,1 m/s	2,25 m/s
<b>Discharge height</b>	3.000 mm	3.000 mm
<b>Standard equipment</b>	Grinding basket (available mesh sizes 30 - 320 mm)	Grinding basket (available mesh sizes 30 - 400 mm)
<b>Options</b>	16-channel remote control, hydraulic drive	16-channel remote control, hydraulic drive, hydraulic supports, damping facility, magnetic drum, Fe collecting box

## AK 530



Transport dimensions L/W/H: 11.200 / 2.500 / 3.750

## AK 630



Transport dimensions L/W/H: 12.410 / 2.500 / 3.930

## AK 430 K

28.500 kg

Tracklaying chassis with two speeds

Diesel motor

Mercedes-Benz OM 460 LA

315 kW (428 hp) at 2.000 rpm

2.000 Nm at 1.300 rpm

EUROMOT III A

450 l

1.750 mm

1.100 mm

ca. 2.500 kg

850 – 1.000 rpm (depending on the motor speed)

36

ca. 14,5 kg

650 mm

7.000 mm

1.500 mm

2,25 m/s

3.960 mm

Grinding basket  
(available mesh sizes 30 – 400 mm),  
Neodym overband magnet,  
Additional hydraulic connection

16-channel remote control,  
damping facility,  
magnetic drum, Fe collecting box

## AK 530

25.000 kg

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

Diesel motor

Mercedes-Benz OM 502 LA

390 kW (530 hp) at 2.000 rpm

2.400 Nm at 1.300 rpm

EUROMOT III A

750 l

1.750 mm

1.100 mm

ca. 2.500 kg

970 – 1.140 rpm (depending on the motor speed)

36

ca. 14,5 kg

650 mm

6.150 mm

1.500 mm

2,25 m/s

4.500 mm

Grinding basket  
(available mesh sizes 30 – 400 mm)

hydraulic drive,  
hydraulic supports,  
damping facility,  
magnetic drum, Fe collecting box,  
neodym magnet

## AK 630

30.000 kg

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

Diesel motor

Mercedes-Benz OM 502 LA

450 kW (612 hp) at 2.000 rpm

2.700 Nm at 1.300 rpm

EUROMOT III A

900 l

1.750 mm

1.100 mm

ca. 2.500 kg

970 – 1.140 rpm (depending on the motor speed)

36

ca. 14,5 kg

650 mm

7.000 mm

1.500 mm

2,1 m/s

4.140 mm

Grinding basket  
(available mesh sizes 30 – 400 mm)

hydraulic drive,  
neodym magnet,  
Fe collecting box,  
hydraulic support legs

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