AK SERIES
Grinders

AK 235
AK 510 K BioPower
AK 560 Eco Power
AK 560 Eco Power Plus
AK 635 K
AK 635 SA
AK SERIES

POWERFUL AND VERSATILE

THE AK SERIES – RELIABLE GRINDERS

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.

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*.

THE AK SERIES – RELIABLE GRINDERS MATERIALS AND APPLICATIONS

COMPOSTING, WASTE WOOD PROCESSING

ONE GRINDER – MANY POSSIBLE 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.

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

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

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.

FLAIL DRUM WITH FREE-SWINGING FLAILS
The large flail drum with its approx. weight of 2.5 t (5,512 lb) 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*.

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*.

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

MAINTENANCE
Large doors for optimal maintenance.

BAFFLE PLATE
A baffle plate with teeth supports the grinding process.

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.

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

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

MAINTENANCE
Large doors for optimal maintenance.

BAFFLE PLATE
A baffle plate with teeth supports the grinding process.
**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.

<table>
<thead>
<tr>
<th>Permissible weight</th>
<th>15,000 kg (33,069 lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>diesel engine</td>
</tr>
<tr>
<td></td>
<td>Mercedes-Benz OM 926 LA</td>
</tr>
<tr>
<td>Power</td>
<td>175 kW (239 hp) at 2,200 rpm</td>
</tr>
<tr>
<td>Flail drum width</td>
<td>1,480 mm (4' 10&quot;)</td>
</tr>
<tr>
<td>Flail drum diameter</td>
<td>900 mm (2' 11&quot;)</td>
</tr>
<tr>
<td>Flails/Teeth</td>
<td>16/28</td>
</tr>
<tr>
<td>Transport dimensions L/W/H</td>
<td>9,230/2,110/3,100 mm (30' 3&quot;/6' 11&quot;/10' 2&quot;)</td>
</tr>
</tbody>
</table>

**AK 510 BIOPower**

The flail drum weight of the AK 510 BioPower 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 – 400 mm (1.2 – 15.75”).

<table>
<thead>
<tr>
<th>Permissible weight</th>
<th>20,000 kg (41,888 lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>diesel engine</td>
</tr>
<tr>
<td></td>
<td>Mercedes-Benz OM 460 LA</td>
</tr>
<tr>
<td>Power</td>
<td>375 kW (510 PS) at 2,000 rpm</td>
</tr>
<tr>
<td>Flail drum width</td>
<td>1,750 mm (5' 9&quot;)</td>
</tr>
<tr>
<td>Flail drum diameter</td>
<td>1,300 mm (3' 7&quot;)</td>
</tr>
<tr>
<td>Flails/Teeth</td>
<td>36</td>
</tr>
<tr>
<td>Transport dimensions L/W/H</td>
<td>9,700/2,500/3,960 mm (31'10&quot;/8'2&quot;/13')</td>
</tr>
</tbody>
</table>

**Bark**

**Waste wood**

**Shrubs**

**Green waste**

**Cutting wood**

**Waste wood**

**Green waste**

**Green waste**

**Green waste**
AK 560 ECOPOWER

The flail drum weight of the AK 510 BioPower 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 – 400 mm (1.2 – 15.75”).

<table>
<thead>
<tr>
<th>Permissible weight</th>
<th>19,000 kg (41,888 lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>diesel engine Mercedes-Benz OM 460 LA</td>
</tr>
<tr>
<td></td>
<td>power 375 kW (510 PS) at 2,000 rpm</td>
</tr>
<tr>
<td>Flail drum</td>
<td>width 1,750 mm (5’9”)</td>
</tr>
<tr>
<td></td>
<td>diameter 1,100 mm (3’7”)</td>
</tr>
<tr>
<td></td>
<td>no. of flails 36</td>
</tr>
<tr>
<td>Transport dimensions</td>
<td>L/W/H 9,700/2,500/3,960 mm (31’10”/8’4”/12’4”)</td>
</tr>
</tbody>
</table>

AK 560 ECOPOWER Plus

Higher performance at lower consumption, remote diagnostics by GPS; the three-axle AK 560 EcoPower Plus is the successor model of the AK 510 and it makes some points when it comes to shredding.

<table>
<thead>
<tr>
<th>Permissible weight</th>
<th>22,000 kg (48,502 lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>diesel engine MTU 6R 1300</td>
</tr>
<tr>
<td></td>
<td>power 390 kW (530 PS) bei 2,000 rpm</td>
</tr>
<tr>
<td>Flail drum</td>
<td>width 1,750 mm (5’9”)</td>
</tr>
<tr>
<td></td>
<td>diameter 1,100 mm (3’7”)</td>
</tr>
<tr>
<td></td>
<td>no. of flails 36</td>
</tr>
<tr>
<td>Transport dimensions</td>
<td>L/W/H 9,885/2,540/3,750 mm (32’5”/8’4”/12’4”)</td>
</tr>
</tbody>
</table>
AK 635 K

The flail drum weight of the AK 635 K 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 – 400 mm (1.2 – 15.75”).

<table>
<thead>
<tr>
<th>Permissible weight</th>
<th>32,000 kg (70,547 lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>diesel engine power Mercedes-Benz OM 502 LA</td>
</tr>
<tr>
<td></td>
<td>480 kW (643 hp) at 2,000 rpm</td>
</tr>
<tr>
<td>Flail drum</td>
<td>width 1,690 mm (5' 7&quot;)</td>
</tr>
<tr>
<td></td>
<td>diameter 1,300 mm (3' 7&quot;)</td>
</tr>
<tr>
<td></td>
<td>no. of flails 36</td>
</tr>
<tr>
<td>Transport dimensions L / W / H</td>
<td>10,025 / 3,000 / 3,390 mm (32' 8&quot;/ 9' 1&quot;/ 11' 14&quot;)</td>
</tr>
</tbody>
</table>

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 – 400 mm (1.2 – 15.75”).

<table>
<thead>
<tr>
<th>Permissible weight</th>
<th>30,000 kg (66,139 lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>diesel engine power Mercedes-Benz OM 502 LA</td>
</tr>
<tr>
<td></td>
<td>440 kW (598 hp) at 2,000 rpm</td>
</tr>
<tr>
<td>Flail drum</td>
<td>width 1,750 mm (5' 9&quot;)</td>
</tr>
<tr>
<td></td>
<td>diameter 1,300 mm (3' 7&quot;)</td>
</tr>
<tr>
<td></td>
<td>no. of flails 36</td>
</tr>
<tr>
<td>Transport dimensions L / W / H</td>
<td>12,410 / 2,500 / 3,930 mm (40' 9&quot;/ 8' 2&quot;/ 12' 11&quot;)</td>
</tr>
</tbody>
</table>
## TECHNICAL DATA AK SERIES

### Model AK 235
- **Weight**: 15,000 kg (33,069 lb)
- **Chassis**: central-axle trailer chassis with 2 axles, for 80 km/h (50 mph), with ABS
- **Drive**: diesel engine (optional electric motor)
- **Type**: Mercedes-Benz OM 926 LA
- **Power**: 175 kW (239 hp) at 2,200 rpm
- **max. torque**: 850 Nm at 1,200–1,600 rpm
- **Exhaust level**: EUROMOT III B
- **Fuel tank**: 215 l (57 gal)
- **Flail drum**: Width 1,480 (4' 10")
  Diameter 900 (2' 11")
- **Weight (with flail tips)**: approx. 1,310 kg (2,888 lb)
- **Speed (depending on engine speed)**: 1,140–1,320 rpm
- **No. of flails/teeth**: 16/28
- **max. infeed height**: 530 (1' 9")
- **Discharge conveyor**: Length 5,250 (17' 3")
  Width 1,500 (4' 11")
  Belt speed 2.0 m/s (6' 7")
  Discharge height 1,000 (3' 3")
  Grinding basket, available mesh sizes 30–320 (1.2–12.06") or re-grinding comb with hood
- **Options**: remote control, additional hydraulic connection, twin drive, magnetic pulley, overband magnet, damping facility, baffle plate with cutting bar

### Model AK 510 BioPower
- **Weight**: 19,000 kg (41,888 lb)
- **Chassis**: central-axle trailer chassis with 2 axles, for 80 km/h (50 mph), with ABS
- **Drive**: diesel engine (optional electric motor)
- **Type**: Mercedes-Benz OM 460 LA
- **Power**: 375 kW (510 hp) at 2,000 rpm
- **max. torque**: 2,200 Nm at 1,300 rpm
- **Exhaust level**: EUROMOT III B
- **Fuel tank**: 450 l (97 gal)
- **Flail drum**: Width 1,750 (5' 9")
  Diameter 1,100 (3' 7")
- **Weight (with flail tips)**: approx. 2,500 kg (5,512 lb)
- **Speed (depending on engine speed)**: 850–1,000 rpm
- **No. of flails/teeth**: 36
- **max. infeed height**: 650 (2' 2")
- **Discharge conveyor**: Length 4,000 (13' 1")
  Width 1,800 (5' 11")
  Belt speed 2 m/s (6' 7")
  Discharge height 900 (2' 11")
  Grinding basket, available mesh sizes 30–400 (1.2–15.75")
  Remote control, baffle plate with cutting bar, fine shredding comb
- **Options**: additional hydraulic connection, remote control, grinding basket, available mesh sizes 30–400 (1.2–15.75"), twin drive, 600 liter tank, baffle plate with cutting bar or other type

### Model AK 560 EcoPower
- **Weight**: 19,000 kg
- **Chassis**: central-axle trailer chassis with 2 axles, for 80 km/h (50 mph), with ABS
- **Drive**: diesel engine
- **Type**: MTU 6R 1300
- **Power**: 390 kW (530 PS) at 2,000 rpm
- **max. torque**: 2,460 Nm at 1,300 rpm
- **Exhaust level**: Tier IV final
- **Fuel tank**: 450 l (97 gal)
- **Flail drum**: Width 1,750 (5' 9")
  Diameter 1,100 (3' 7")
- **Weight (with flail tips)**: approx. 2,500 kg (5,512 lb)
- **Speed (depending on engine speed)**: 850–1,000 rpm
- **No. of flails/teeth**: 36
- **max. infeed height**: 650 (2' 2")
- **Discharge conveyor**: Length 4,000 (13' 1")
  Width 1,800 (5' 11")
  Belt speed 2 m/s (6' 7")
  Discharge height 900 (2' 11")
  Grinding basket, available mesh sizes 30–400 (1.2–15.75")
  Remote control, baffle plate with cutting bar, fine shredding comb
- **Options**: additional hydraulic connection, overband magnet, magnetic pulley, damping facility, fine shredding comb

### Model AK 560 EcoPower Plus
- **Weight**: 22,000 kg
- **Chassis**: central-axle trailer chassis with 3 axles, for 80 km/h (50 mph), with ABS
- **Drive**: diesel engine
- **Type**: MTU 6R 1300
- **Power**: 390 kW (530 PS) at 2,000 rpm
- **max. torque**: 2,460 Nm at 1,300 rpm
- **Exhaust level**: Tier IV final
- **Fuel tank**: 600 l (159 gal)
- **Flail drum**: Width 1,750 (5' 9")
  Diameter 1,100 (3' 7")
- **Weight (with flail tips)**: approx. 2,500 kg (5,512 lb)
- **Speed (depending on engine speed)**: 850–1,000 rpm
- **No. of flails/teeth**: 36
- **max. infeed height**: 650 (2' 2")
- **Discharge conveyor**: Length 6,000 (19' 8")
  Width 1,800 (5' 11")
  Belt speed 2 m/s (6' 7")
  Discharge height 4,200 (13' 9")
  Grinding basket, available mesh sizes 30–400 (1.2–15.75")
  Twin drive, 600 liter tank, baffle plate with cutting bar or other type
- **Options**: additional hydraulic connection, overband magnet, magnetic pulley, damping facility, fine shredding comb

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As of April 2016 – subject to technical alterations. The specifications are approximate. Illustrations and descriptions may include options that are not part of the standard equipment.
## TECHNICAL DATA AK SERIES

<table>
<thead>
<tr>
<th>Model</th>
<th>AK 635 K</th>
<th>AK 635 SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>32,000 kg (70,548 lb)</td>
<td>30,000 kg (66,159 lb)</td>
</tr>
<tr>
<td>Chassis</td>
<td>track drive with two speeds</td>
<td>3-axle-semi-trailer chassis,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for 80 km/h (50 mph), with A8S</td>
</tr>
<tr>
<td>Drive</td>
<td>diesel engine</td>
<td>diesel engine</td>
</tr>
<tr>
<td>Type</td>
<td>Mercedes-Benz OM 502 LA</td>
<td>Mercedes-Benz OM 502 LA</td>
</tr>
<tr>
<td>Power</td>
<td>480 kW (653 hp) at 2,000 rpm</td>
<td>440 kW (598 hp) at 2,000 rpm</td>
</tr>
<tr>
<td>max. torque</td>
<td>3,000 Nm at 1,300 rpm</td>
<td>2,800 Nm at 1,300 rpm</td>
</tr>
<tr>
<td>Exhaust level</td>
<td>EUROMOT III B</td>
<td>EUROMOT III B</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>750 l (198 gal)</td>
<td>900 l (238 gal)</td>
</tr>
<tr>
<td>Flail drum</td>
<td>Width 1,690 (5' 7&quot;)</td>
<td>1,790 (5' 9&quot;)</td>
</tr>
<tr>
<td></td>
<td>Diameter 1,100 (3' 7&quot;)</td>
<td>1,100 (3' 7&quot;)</td>
</tr>
<tr>
<td></td>
<td>Weight (with flail tips) approx. 2,500 kg (5,512 lb)</td>
<td>approx. 2,500 kg (5,512 lb)</td>
</tr>
<tr>
<td></td>
<td>Speed (depending on engine speed) 970 – 1,140 rpm</td>
<td>970 – 1,140 rpm</td>
</tr>
<tr>
<td></td>
<td>No. of flails/teeth 36</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>max. infeed height approx. 14.5 kg (31 lb)</td>
<td>approx. 14.5 kg (31 lb)</td>
</tr>
<tr>
<td>Discharge conveyor</td>
<td>Length 7,000 (23')</td>
<td>7,000 (23')</td>
</tr>
<tr>
<td></td>
<td>Width 1,500 (4' 11&quot;)</td>
<td>1,500 (4' 11&quot;)</td>
</tr>
<tr>
<td></td>
<td>Belt speed 2.0 m/s (6' 7&quot;)/s</td>
<td>2.0 m/s (6' 7&quot;)/s</td>
</tr>
<tr>
<td></td>
<td>Discharge height 4,500 (14' 9&quot;)</td>
<td>4,500 (14' 9&quot;)</td>
</tr>
<tr>
<td>Standard equipment</td>
<td>additional hydraulic connection, remote control, grinding basket, available mesh sizes 30 – 400 (1.2’ – 15.75’), twin drive</td>
<td>additional hydraulic connection, remote control, grinding basket, available mesh sizes 30 – 400 (1.2’ – 15.75’), rear conveyor, twin drive, damping facility</td>
</tr>
<tr>
<td>Options</td>
<td>overband magnet, magnetic pulley, damping facility, baffle plate with cutting bar</td>
<td>overband magnet, magnetic pulley, baffle plate with cutting bar</td>
</tr>
</tbody>
</table>

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