DZ SERIES
Shredder 2 in 1

DZ 750
DZ 750 K
POWERFUL AND FLEXIBLE – 2 IN 1
THE COMBINED SHREDDER DZ 750

The DZ 750 solves difficult shredding problems by the combination of two processes in one machine: shredding by the well-proven low-speed principle complemented by the high-speed grinding process by flail drum and grinding basket. The grinding unit is fed by the load-sensing, reversible conveying system consisting of ascending conveyor, scraper floor and feed-in roller.

After each of both working steps the iron fraction is separated by means of overband magnets.

The whole machine is driven by a powerful Mercedes-Benz engine with high efficiency.

The power comes up to the requirements of continuous operation. Reliable components manufactured by major suppliers of hydraulic systems, controls and safety systems on the basis of a thought-out construction guarantee very quick maintenance and short downtimes.

The robust construction designed for a long service life, the exclusive use of high-quality materials and a high standard of workmanship ensure a cost-efficient use – even in the long term.

The DZ 750 can shred waste wood, roots, green waste, biowaste, garbage, bulky and industrial waste, construction waste and much more.

The construction of two coordinated components on one chassis offers an optimum solution on site for challenging shredding tasks.

**Waste wood processing with DZ 750 and SM 518**

**Road transport of the DZ 750**

**Change of the grinding basket**

**Shredding of waste wood/pallets**

**Shredding of garbage**

**Optional:**
- Fe-separation,
- windsifting and further processing

**COMPOSTING, WASTE WOOD, GARBAGE AND REFUSE-DERIVED FUEL PROCESSING, VOLUME REDUCTION**

**ONE MACHINE FOR MANY KINDS OF MATERIALS**

**THE COMBINED SOLUTION**

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SWING-OUT COOLER WITH REVERSIBLE FAN WHEEL
The swing-out cooler is easily accessible and self-cleaning by means of a reversible large fan wheel. The low speed keeps down the noise level.

ADDITIONAL HYDRAULIC OIL COOLER

FEEDING HOPPER, ROLLER AND SHREDDING COMB
Roller teeth tear the material to be shredded through the hydraulically controlled shredding comb. The comb opens automatically in case of large unshreddable contaminants in order to protect the machine and minimize the tool wear. All the wear parts are easily replaceable by a quick-changing device.

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

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

INTEGRATED METAL SEPARATION
Before grinding, an overband magnet already separates contaminants.

ADDITIONAL HYDRAULIC OIL COOLER

REAR CONVEYOR
The material is discharged by the rear conveyor. Second Fe-separation by means of a second overband magnet.

Additional hydraulic oil cooler

MAINTENANCE
Large doors for optimum maintenance.

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.

SWING-OUT COOLER

Baffle plate with teeth supports the grinding process.

GRINDING BASKET
The desired grain size of the material is determined by choosing among grinding baskets with mesh sizes between 30 to 280 mm (1.2”–11”). With the quick-changing system it takes only 15 minutes to change the baskets.

FLAIL DRUM WITH FREE-SWINGING FLAILS
The large flail drum with approx. 2.5 t (5,512 lb) gyrating mass grinds the materials. The free-swinging flail holders with easily replaceable wearing tips are resistant to contaminants. The tips can be chosen according to the materials.

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MAIN ADVANTAGES
• shredding and grinding in one machine
• extremely versatile - shredding of various materials
• hydraulically controlled shredding comb, therefore protection of the machine, high availability (contaminants are discharged)
• continuous shredding by load-sensing material in-feed
• individually replaceable wear parts
• possibility of combination with other Doppstadt products
• one-man-operation

TECHNICAL DATA DZ SERIES

Model | DZ 750 | DZ 750 K
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Weight (max.) | 46,000 kg (101,413 lb) | 53,000 kg (116,845 lb)
Chassis | 4-axle-semi-trailer chassis, for 80 km/h (50 mph), with ABS | track drive with two speeds
Drive | diesel engine | diesel engine
Type | Mercedes-Benz OM 502 LA | Mercedes-Benz OM 502 LA
Nominal power | 480 kW (652 hp) at 1,900 rpm | 480 kW (652 hp) at 1,900 rpm
Exhaust standard | EUROMOT III A | EUROMOT III A
Cubic capacity | 15,930 cm³ (730 in³) | 15,930 cm³ (730 in³)
Tank capacity | 800 l (211 gal) | 900 l (238 gal)
Roller shredding
Roller: Length | 3,000 (9'10") | 3,000 (9'10")
Diameter | 600 (2') | 600 (2')
Speed | 25 rpm | 25 rpm
Tooth width/length | 60/174 (2'4"/6'9") | 60/174 (2'4"/6'9")
No. of teeth | 42 | 42
Comb: Length | 3,000 (9'10") | 3,000 (9'10")
Tooth width | 60 (2') | 60 (2')
No. of teeth | 22 | 22
Fall drum
Width | 1,750 (5'9") | 1,750 (5'9")
Diameter | 1,100 (3'7") | 1,100 (3'7")
Weight (approx.) | 2,500 kg (5,512 lb) | 2,500 kg (5,512 lb)
Speed | 970-1,140 rpm (depending on engine speed) | 970-1,140 rpm (depending on engine speed)
No. of flats | 36 | 36
Flail weight (incl. tip) | approx. 14.5 kg (30.9 lb) | approx. 14.5 kg (30.9 lb)
Discharge conveyor
Width | 1,500 (4'11") | 1,500 (4'11")
Length | 7,000 (23') | 6,900 (19'8")
Belt speed max. | 2.1 m/s (6'11")/s | 2.1 m/s (6'11")/s
Discharge height | approx. 4,100 (13'5") | approx. 4,100 (13'5")
Metal separation | two overband magnets (coarse and fine) | two overband magnets (coarse and fine)
Options | damping facility in roller area, hopper heightening, electr. conveyor heating (lower conv. of shredder & grinder, lifting conv.) | damping facility in roller area, hopper heightening, electr. conveyor heating (lower conv. of grinder)

As of April 2014 - subject to technical alterations. All dimensions are in mm (ft/in). The specifications are approximate. Illustrations and descriptions may include options that are not part of the standard equipment.
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