

BIOMASS SHREDDER BMS

THE SHREDDING SOLUTION FOR THE SMOOTH OPERATION OF YOUR BIOGAS PLANT

The Biomass Shredder BMS is a vertical shredder that efficiently and homogeneously processes biomasses for biogas plants. The shredding and disintegration results in a higher gas yield and difficult substrates such as solid manure, silage, grass, straw, sugar beet or other crops can be made usable.

The material is fed into the machine from above, pre-shredded by a ripping comb above the rotor and then enters the impact zone. A fast-rotating rotor and impact bars made of wear-resistant material then shred the material so that a homogeneous and well-disintegrated substrate is produced, which is ideally prepared for anaerobic digestion.



KEY FEATURES

PROBLEM SOLVER FOR BIOGAS PLANTS

- Efficient particle size reduction of even the most difficult substrates
- Flexibility and economy through the use of alternative raw materials
- High throughput rates of up to 15 t/h
- Process optimisation through better pumping and agitating properties, minimisation of the floating layer

RELIABLE OPERATION AND LONG DURABILITY

- Robust welded construction for continuous industrial operation (24/7)
- Impact parts and beaters made of wear-resistant materials such as Hardox and tungsten carbide
- Clog-free operation due to discharge in the bottom of the impact chamber
- Resistant to impurities, as no sharp tools are used

HIGH AVAILABILITY AND EASY MAINTENANCE

- Large maintenance door with platform ensures maximum accessibility
- Position of the maintenance door can be adjusted in 15° steps to suit the conditions on site
- Minimal wear costs due to replaceable shredding tools on the beater
- Easy to change wear plates due to outside screw connection
- Easy removal of heavy parts by crane traverse with chain hoist (option)

HIGH SAFETY OF PERSONNEL AND PLANT

- Door securing with key transfer system
- Monitoring of unbalance, contaminant ingress and vibrations by means of vibration sensor
- Sensors for monitoring the bearing temperature

Type	BMS 1500
Throughput capacity	up to 15 t/h
Rotor speed	750 - 900 rpm
Number of beaters	6 pieces
Dimensions and Weight	
Diameter housing	1480 mm
Height housing	1500 mm
Length x width x height (total)	2700 x 1730 x 2530 mm
Weight incl. motor (approx.)	5000 kg
Drive	
Three-phase motor	132 kW

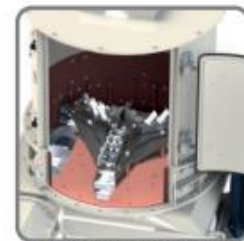
STANDARD SUPPLY AND OPTIONS

SCOPE OF SUPPLY:

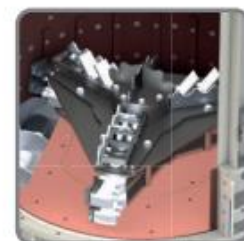
- Multi-coat painting in RAL 9001 (cream white), motor RAL 5014 (pigeon blue)
- Door locking with key transfer system
- Belt drive with protective cover
- Base frame with antivibration mountings
- Bearing temperature monitoring
- Sensor for vibration monitoring
- Electrical components completely wired on terminal boxes
- 132 kW drive motor B5
- 1 set of beaters, fully assembled
- 1 set of impact parts, fully assembled
- Maintenance platform

OPTION:

- Crane traverse for installation in the housing with chain hoist for the exchange of heavy parts such as the rotor



Large maintenance door for optimal accessibility



Easy to change beaters and impact parts

