

## BIOMASS SHREDDER

### 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.



#### 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 1200	BMS 1500
Throughput Capacity	up to 10 t/h	up to 15 t/h
Rotor Speed	1000 - 1200 rpm	750 - 900 rpm
Number of Beaters	4 pieces	6 pieces
Dimensions and Weight		
Diameter Housing	1200 mm	1480 mm
Height Housing	1290 mm	1500 mm
Length x Width x Height (total)	2535 x 1546 x 2440 mm	2700 x 1730 x 2530 mm
Weight incl. Motor	approx. 3600 kg	approx. 5000 kg
Drive		
Three-phase motor	55 - 90 kW	90 - 132 kW

#### Your local distributor:

**Danmark**  
Lobe  
Fabriksvej 13 - 15  
6580 Vamdrup

**Norge**  
Lobe  
Billingstadsletta 25  
1396 Billingstad

**Sverige**  
Lobe  
Skeppsbrogatan 55 392  
31 Kalmar

MADE IN GERMANY

## BIOMASS SHREDDER

### SCOPE OF SUPPLY

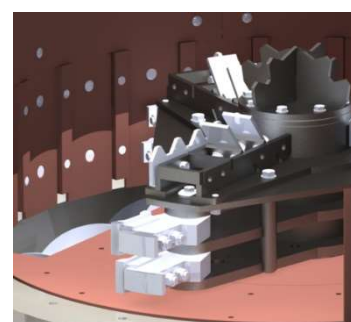
- Multi-coat painting in RAL 9001 (cream white), motor RAL 5014 (pigeon blue)
- Door locking with key transfer system
- Belt drive with protective cover
- Base frame with antivibration mountings
- Bearing temperature monitoring
- Sensor for vibration monitoring
- Electrical components completely wired on terminal boxes
- 75 - 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



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