

Wet Grinding of Organic Waste

HAMMER MILL BIMIX

The hammer mill BIMIX is suitable for wet grinding of biomass into a pumpable product with a defined particle size. It is used in particular for the particle size reduction of unpackaged biowaste and food waste. The robust design, for example, also makes it possible to process slaughterhouse waste with bone residues (rendering).



Your Advantages

Efficient Wet Grinding even of Large Material Pieces

- A large inlet also enables the feeding of bulky products
- Optimised geometry with impact area for effective particle size reduction of wet materials
- Connections for the addition of liquids
- Adjustment of the particle size by changing the rotational speed (when using a frequency converter) and the screen perforation

Reliable Operation and Long Durability

- Robust welded construction for continuous industrial operation (24/7)
- Stainless steel design of rotor and housing made of material 1.4301
- Grinding chamber equipped with impact plates to protect the housing, easy to change

- Durable, optimised rotor design, dynamically balanced, operation in one direction of rotation
- Foreign body catch trap inside the grinding chamber

High Availability with Low Downtimes

- Rotor with short run-down time < 6 min without brake
- Large hinged or sliding door allows easy and quick access to the machine interior
- 1-piece screen segment without frame, easy and quick to change
- Foreign body catch trap easy to clean

High Safety of Personnel and Plant

- Standstill monitoring with door safety device
- Sensors for monitoring bearing temperatures

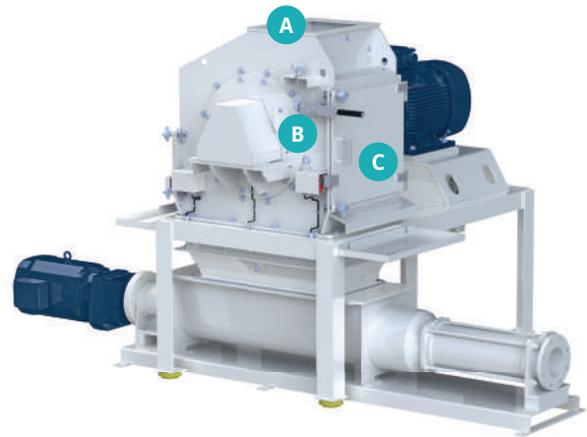
Technical Details

Typ	BIMIX 500	BIMIX 700
Grinding Chamber Diameter (mm)	680	680
Screen width (mm)	520	760
Grinding Chamber Area (m ²)	0.5	0.8
Dimensions and Weight		
Length* x width x height (approx. mm) *depending on motor size	1510 x 1180 x 1315	1750 x 1180 x 1315
Weight without motor (approx. kg)	1400	1650
Drive		
Motor size (kW)	75 - 110	110 - 160
Nominal speed, 50 Hz (rpm)	3000	3000
Nominal speed, 60 Hz (rpm)	3600	3600
Speed with frequency converter 30 - 60 Hz (rpm)	1800 - 3600	1800 - 3600

Standard Supply and Options

Standard Scope of Supply:

- Stainless steel parts pickled and passivated
- Flexible cam coupling (N-EUPEX) with coupling guard
- Support frame made of sectional steel, mounted on vibration dampers
- Automatic door locking with standstill monitoring
- Electrical components completely wired to terminal boxes
- Drive motor B3
- Sensors for bearing temperature monitoring
- 1 set of beaters, ready mounted
- 1 set of screens, ready mounted
- 1 set special tools



Option:

- Outlet hopper
- Eccentric screw pump with compensator



A Large inlet



B Optimised grinding chamber with screen and impact area



C Door with foreign body catch trap

Organics Waste Treatment Plant as an Individual System Solution

According to your needs we integrate the BIMIX hammer mill into a complete processing plant:

- Receiving bunker for truck unloading or with tipping station for waste bins
- Container washing machine
- Screw discharge floor
- Screw conveyors
- Pumps
- Tank and pipe construction
- Hygienisation
- Steel construction
- Process control

