

BIOGRINDER (RBG)

Optimized gas yield thanks to
efficiently defibered substrates

TRANSFORMING
MATERIALS INTO VALUE



THE DEFIBRATOR: ENERGY FROM WASTE

Accelerated gas yield through mechanical processing.



DEFIBER ONCE, BENEFIT FROM OPTIMIZED METHANE YIELD: BHS BIOGRINDER

The machine

The Biogrinder (RBG) is mostly used in biogas production for the intensive mechanical processing of the organic raw materials before fermentation. Impact and shear forces optimally crush and defiber the input material, accelerating gas production and making the overall process more stable. It also greatly expands the selection of raw materials. As a result, the entire biogas plant operates much more economically and efficiently.

The choice is yours

Depending on the mechanical or chemical abrasiveness of your raw material, we will work with you to develop a concept for the correct material configuration of the Biogrinder. This is available in either ferrite or stainless-steel versions.

One machine – thousands of raw materials. Here are few:

Animal manure	Horses	Cattle	Chickens	Turkeys	Pigs
Straw	Corn	Wheat	Rye	Rice	
Silages	Corn	Grass	Fodder beets		
Field crop husks	Chicory	Corn	Cucumber		
Grass	Grass cuttings	Countryside grass			
Grains	Green rye	Corn			
Organic waste	Green waste bin				

[Technology in detail](#)

www.bhs-sonthofen.com/biogrinder

GAIN THE TECHNICAL EDGE

Innovative defibering for your application.

1 | Disk rotor

Due to the concial shape of the disc rotor, the input materials are transported without energy loss directly in the area of the defibering process in front of the hammer. The special design of the disk rotor reduces wear costs and makes it easy to maintain. The main body of the disk rotor remains in the machine and the rotor components can be replaced individually or in groups based on the degree of wear.

2 | Stator bar

The stator bars make it possible to defiber the input material to the smallest degree possible, which accelerates biogas production. Different numbers of stator bars can also be deployed in variable positions to give materials with a wide range of properties the best possible preparation before they enter process later down the line.

3 | Hammer

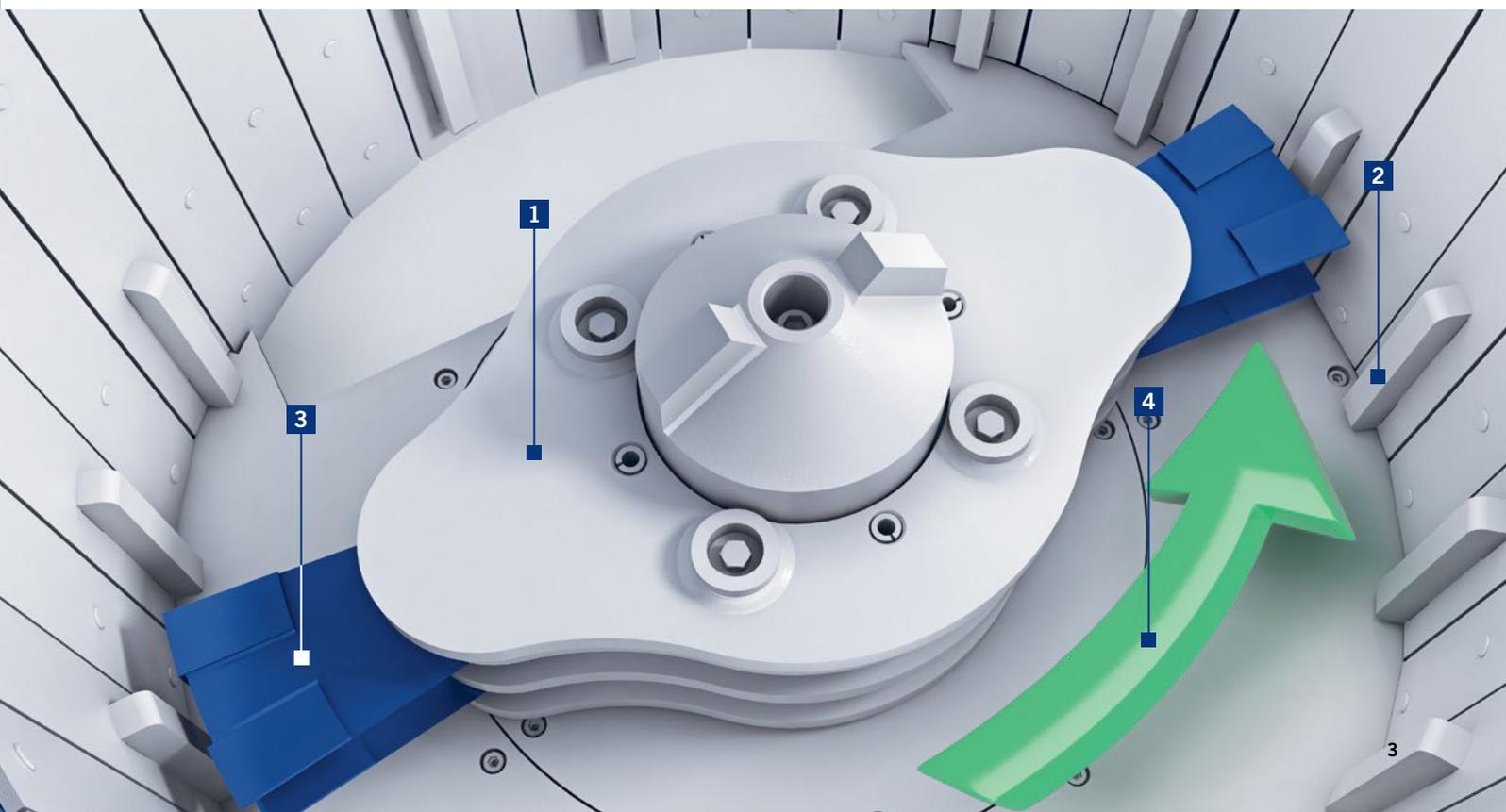
Different hammer shapes and metal alloys are available to provide you with the highest degree of processing for your input material. You can select the right tool depending on the type of input material.

4 | Defibering

Conventional processes for defibering the input material only moderately increase the working surface for the bacteria in the fermenter. In contrast, the Biogrinder expands the working surface many times over. This allows the retention time in the fermenter to be reduced by a factor of two to ten, depending on the material. One positive side effect of the material degrading faster in the fermenter is that a homogenous cake forms. This means that less stirring is required, which results in significant energy savings.

Benefits at a glance

- ✓ Accelerated gas generation
- ✓ High energy efficiency
- ✓ Stable fermentation process
- ✓ Continuous process
- ✓ Future-proof investment



IDEAL INTEGRATION

Optimization of your plant according to individual customer requirements.

Operational reliability guaranteed

Reliable operation without undesired disruptions is a key criterion for a system to deliver added value. Our sales experts and engineers boast years of experience. They provide you as the customer with a tailored service that meets all of your needs.

Planning

The Biogrinder (RBG) fits ideally into the prevailing conditions at the customer's site. If the biogas plant is a new installation, our project engineering specialists will use their expertise to help you redesign the plants, both in terms of planning and installation.

Retrofit

We not only provide our customers with guidance during the new installation of biogas plants. We also provide you with expert support in integrating the Biogrinder into your existing fermentation process or a modular extension of the biogas plant.

Consulting and service

Benefit from our comprehensive application expertise. In addition to expert consulting, we conduct tests as part of the basic integration process to ensure the machine is perfectly tuned for your application. Our service technicians and project engineers will also guide you through design and installation, as well as during cold and hot commissioning.

 [Systems at a glance](#)

 www.bhs-sonthofen.com/biogrinder



SHORTER DOWNTIMES – MORE YIELD

Easy-to-maintain system, innovatively designed.

Maintaining and replacing of wear parts become a breeze – with the disk rotor. The user-friendly design of the Biogrinder (RBG) makes it possible for all maintenance work to be carried out easily by one person.

The moderate weight of all the individual parts (≤ 20 kg) means that no additional lifting equipment is required. All wear parts such as rotor and housing wear parts can be replaced in a few steps through the maintenance opening in the inlet. No special tools are required.

BHS original spare parts – wide assortment of components in stock

Even small parts can have a big impact. BHS ORIGINAL PARTS meet the highest standards in terms of quality and are designed to work seamlessly with our machines and systems. Take advantage of the speedy delivery of 10,000+ spare parts available in stock and reduce your machine downtimes to a minimum.



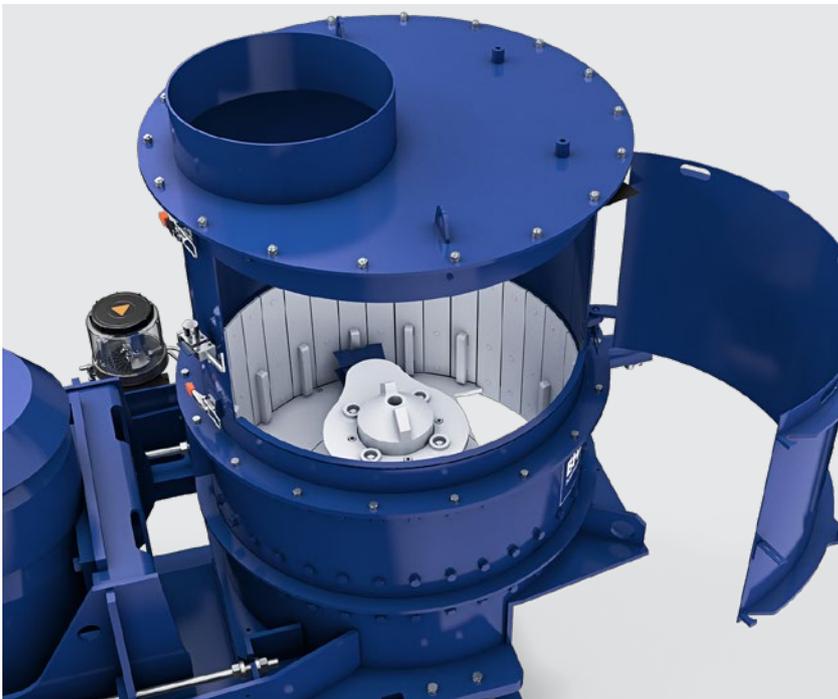
Our service team will be happy to assist you.

☎ +49 8321 6099-531

✉ service@bhs-sonthofen.com

Mon. – Thu. 7 am – 5:30 pm (CET)

Fri. 7 am – 3:30 pm (CET)



BHS-Sonthofen GmbH Recycling Technology ▪ An der Eisenschmelze 47 ▪ 87527 Sonthofen ▪ Germany

🌐 www.bhs-sonthofen.com ☎ +49 8321 6099-520 ✉ recycling@bhs-sonthofen.com

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