

Processing of biomass

with the Romberger continuous shredder DLZ



 All substrates are continuously processed in flow. The Romberger continuous shredder is always filled evenly. There is no constant switching on and off of the upstream dosing system and conveying technology.

-  Shredding of all solid intake materials with the Romberger continuous shredder 100 % possible: dung, straw, corn silage, grass, Sudan grass, whole crop silage, potatoes, sugar beet, all vegetable waste, grain corn, new substrates, etc.
-  Without complex batch operations and peak current loads. No complicated conversions of the existing plant.
-  Capacity of approx. 12 to/h for maize silage at 55 KW, 17 to/h at 75 KW.
-  Absolutely insensitive to contaminants and foreign objects. What cannot be crushed comes out again.

Function:

Continuous uniform filling and emptying enable trouble-free, low-wear operation. Fast rotating impact elements break down the biomass in just a few seconds. Due to the special design the operation can be carried out in continuous operation. The degree of shredding can be changed by the number of impact elements.

Fast-rotating shredding elements in the machine break down the cell structure in seconds, creating a homogeneous substrate with a large surface area. The Romberger continuous shredder defibres various input material instead of cutting it. This increases the surface area of the biomass and provides more attack surface for bacteria, which allows a faster and more efficient decomposition.

The defibrated and crushed substrate has a significantly better swimming behavior in the fermenter due to the higher fine content. The short structure improves stirring and pumping behavior.



Horse dung: before



after

Use of previously unused substrates:

Another important point, which has not yet been noticed, is not only the increase in the yield of biogas through the extraction process, but also the possibility of using materials that are currently not at all or only difficult to use for the biogas plant, such as dung, grass, straw, landscape conservation waste material or biowaste. New field crops can also be introduced and are safely controlled.



Sugar beets: before



after



Wir bewegen was
Romberger®

Maschinenfabrik GmbH
Triffterner Str. 54 · D-84371 Anzenkirchen
Tel. +49(0)8562/208-0 · Fax 208-11
E-Mail: mail@romberger.de
Internet: www.romberger.de

