

Debris Removal System

Quick and easy removal of foreign matter





Debris Removal System (DRS) foreign matter removal for RotaCut RCX

The Debris Removal System (DRS) for RotaCut RCX wet macerators with heavy material separator significantly reduces the time and effort needed to remove foreign matter and ejects heavy material during ongoing operation.

Functional principle of the DRS Debris Removal System

DRS makes ongoing removal of separated heavy material more efficient and quicker. As usual, the foreign matter is separated by gravity in the calming zone. The lobe of the DRS then pushes it in the direction of the removal aperture while at the same time, the connection to the RotaCut is closed. The trapped fluid containing the foreign matter then passes through a bypass back into the macerator. The heavy material is then ejected with only approx. 15 l of medium. This all occurs during ongoing operation, with no need to switch off or open the RotaCut. Compared to previous solutions, this work is now complete in one-sixth of the time. When combined with a controller, this process can be performed automatically.

Use of the DRS

For individual adaptation to the installation situation, two versions of the innovative DRS are available. The removal aperture can be positioned on the bottom or on the side, especially in the case of restricted room height above the unit. The innovative DRS can therefore help optimize operations, especially those in which large quantities of foreign matter arise and the service interruptions necessary to remove the heavy material are becoming disruptive to the process. Another area of application is for cases in which service interruptions are unacceptable or where the downtime would result in high costs for downstream plant parts and process lines, such as in

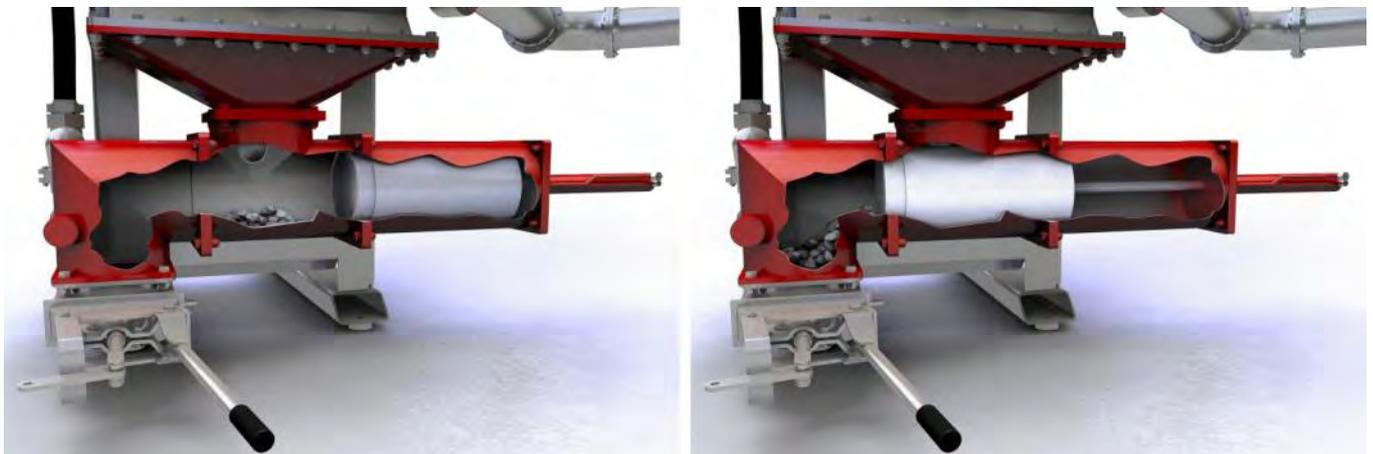
- Biogas plants
- Production plants
- Disposal and recycling industry
- Waste water technology

Advantages of the DRS

- Removal of separated out heavy material during ongoing operation
- Time requirements and workload reduced by up to 80%
- Only approx. 15 l of organic suspension are removed



DRS with side removal aperture on a PreMix.



The lobe of the DRS pushes the foreign matter in the direction of the removal aperture while at the same time closing the connection to the RotaCut. Trapped fluid then passes through a bypass back into the macerator. The heavy material is then ejected with only approx. 15 l of medium during ongoing operation.