

PREMIX[®] IC / ICC

**Next generation solid matter feeder:
more powerful, more efficient
and more durable**

VOGELSANG – LEADING IN TECHNOLOGY

V/OGELSANG



PREMIX® NEXT GENERATION

The versatile PreMix - Now even more powerful, efficient and durable

Reliable solid matter feeding is an essential prerequisite for efficient biogas production. That is why we have further developed our worldwide proven PreMix solid matter feeding system based on customer feedback from thousands of installations.

Like the previous PreMix, the new generation combines four preparation steps in one compact, space-saving unit. A wide variety of substrates are processed into a homogeneous, bacteria-compatible suspension. As a completely closed system, the new generation of PreMix can now also be used in closed rooms.

Dynamic cutting performance control

The new generation features a new version of the ACCplus blade adjustment system. This not only adjusts the blades automatically, but also adapts the cutting performance of the RotaCut RCX independently and dynamically to the substrate. This reduces power consumption and wear on the cutting tools. As a result, the service life is increased by up to 100 percent and maintenance intervals are extended.

Long-lasting & efficient pump

The HiCone progressive cavity pump, another element of the new PreMix, stands for multiplied service life and reduced energy requirements. The conical shape of the rotor and stator enables wear compensation through simple readjustment. There is no need for costly and time-consuming parts replacement.

Advantages of the PreMix® IC/ICC

- Long service life thanks to wear compensation by adjustment of the pump
- Reduced wear thanks to dynamic cutting performance regulation of the RotaCut
- Installation in closed rooms possible
- Automatic process optimization for highly efficient solid matter feeding

Increased automation for efficient solid matter feeding

The sophisticated control system of the new PreMix automatically regulates the system automatically within the optimum range to ensure efficient solid matter feeding. All important parameters and settings can be viewed and adjusted from the control room or via remote control (remote control) can be viewed and adjusted. With the condition monitoring for the pump and cutter, users can keep an eye on the status of wear wear parts at a glance at all times and can plan ahead when replacing parts.

A solution for every customer: PreMix IC & PreMix ICC

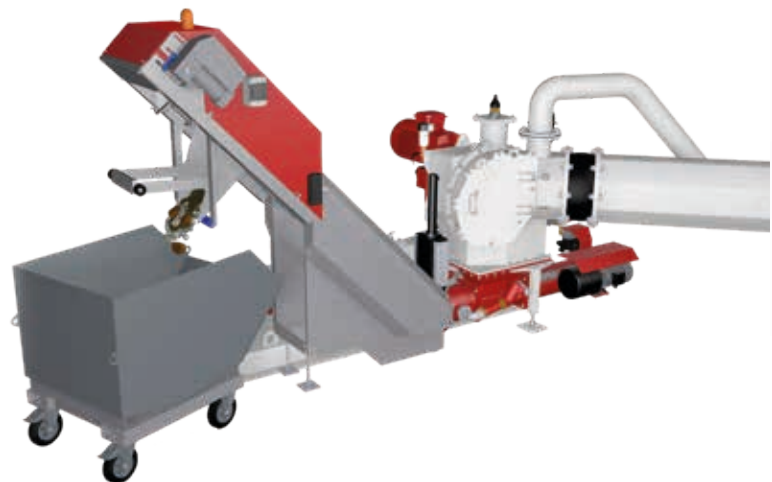
The new generation of the PreMix liquid feeding system is available in two versions: Intelligent Control (IC) - a complete solution for OEMs, in which the plant constructor installs the machine, connects the drives and integrates the IC control system into the higher-level system control. The Intelligent Control Comfort (ICC) variant was developed especially for operators and retrofittings: The entire system is pre-assembled, wired and commissioned at the factory. It only needs to be set up, connected and powered up on site.

Eject foreign matter faster with the DRS

The innovative Debris Removal System (DRS) removes separated foreign matter during on-going operation. Compared to conventional solutions, the process is completed in a sixth of the time thanks to DRS and can be partially automated. In addition, only approx. 15 liters of medium is ejected with the heavy material.

Automatic disposing of foreign matter with the DLU

The Debris Lift Unit is the ideal addition to the Debris Removal System, enabling professional foreign matter handling. The heavy material ejected by the DRS is fully automatically tipped into a collection container by the DLU within a short time. The entire lifting process is automated. Manual monitoring or even manual intervention is no longer necessary.



Efficient 4-in 1 digester feeding

Intelligent control

More powerful and efficient thanks to sophisticated control technology & software

Dynamic cutting performance control

Up to 100 % longer service life with lower power consumption.

Mashing

- 2 Solid and semisolid input materials are mixed with liquid to form a homogenous suspension.

Closed system

Installation in closed rooms possible.

Liquid infeed

Substrate infeed

Maceration

- 3 At the same time, coarse particles and fibrous matter are chopped down.

Digester feeding

Durable & efficient pump

Multiplied service life and reduced energy consumption thanks to conical geometry and clever adjustment system.

Automated foreign matter handling

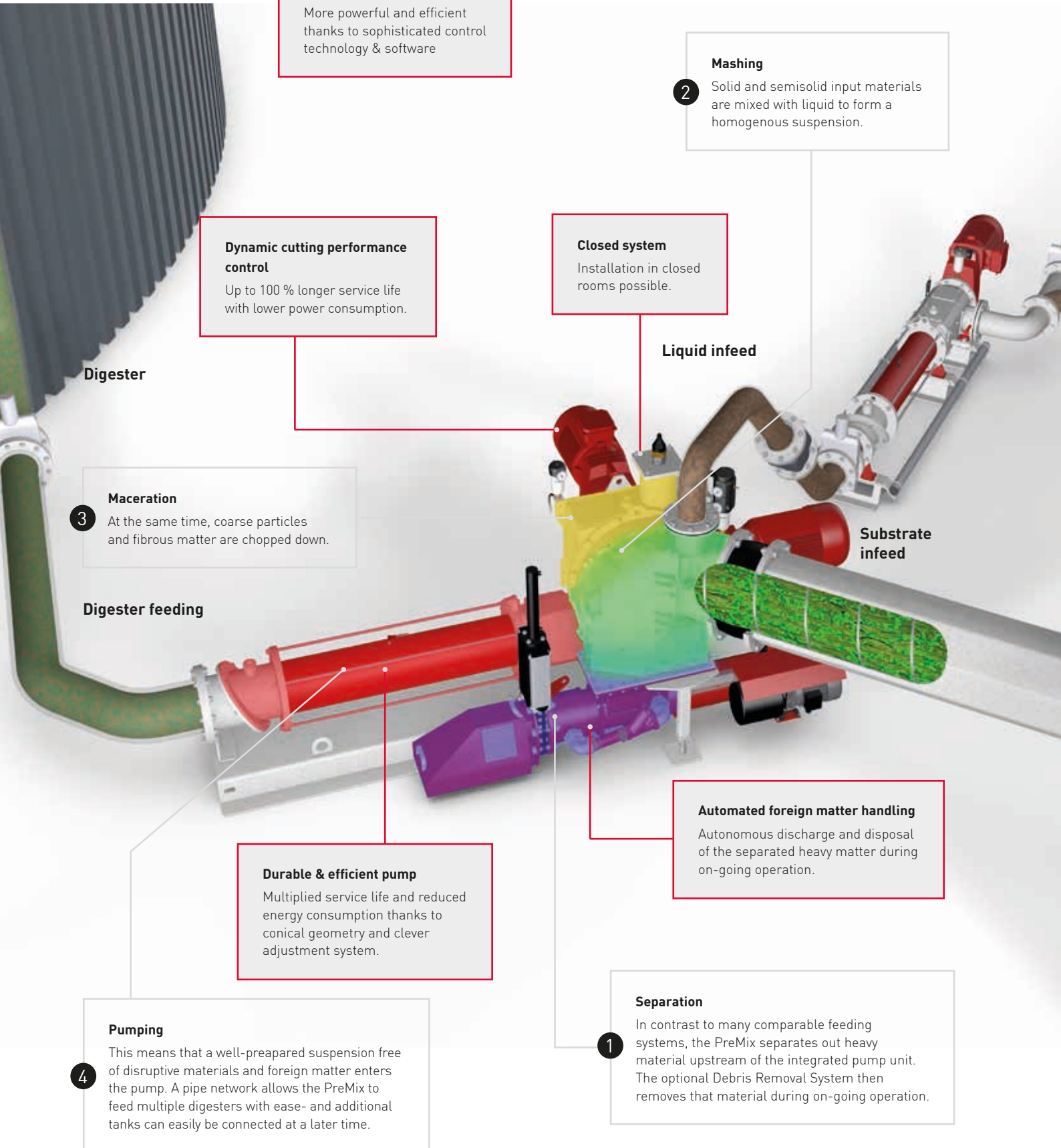
Autonomous discharge and disposal of the separated heavy matter during on-going operation.

Pumping

- 4 This means that a well-prepared suspension free of disruptive materials and foreign matter enters the pump. A pipe network allows the PreMix to feed multiple digesters with ease- and additional tanks can easily be connected at a later time.

Separation

- 1 In contrast to many comparable feeding systems, the PreMix separates out heavy material upstream of the integrated pump unit. The optional Debris Removal System then removes that material during on-going operation.



What we offer

We provide solutions in the following sectors:
AGRICULTURAL TECHNOLOGY, BIOGAS,
INDUSTRY, TRANSPORTATION, WASTEWATER



Our broad range of products and services

- Consulting and service
- Data management and control technology
- Disintegration technology
- Individually tailored solutions for special applications
- Pumps and pump systems
- Solid matter feeders
- Solids reduction, separators and mixers
- Spreading technology
- Supply, disposal and cleaning

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