

# BIOGAS HOCHREITER

*Energy for the future*



# About us



The story of Biogas Hochreiter began in **1985** with the construction of the first in-house biogas plant on the family farm in Steinau. Built by **Hans Hochreiter**, it was originally only used to heat the farmhouse. From this early pioneering spirit emerged a company that has continuously evolved over the past **40 years**.

As early as 1992, the first customer plants with around 15 kW of electrical output were realized- marking the starting point for a steadily growing portfolio of technical solutions and services in the biogas sector.

Today, Biogas Hochreiter is among the **leading biogas plant manufacturers** worldwide.

This family-run company **employs over 60 people** and combines decades of practical experience with innovative, **in-house technology**. Developments

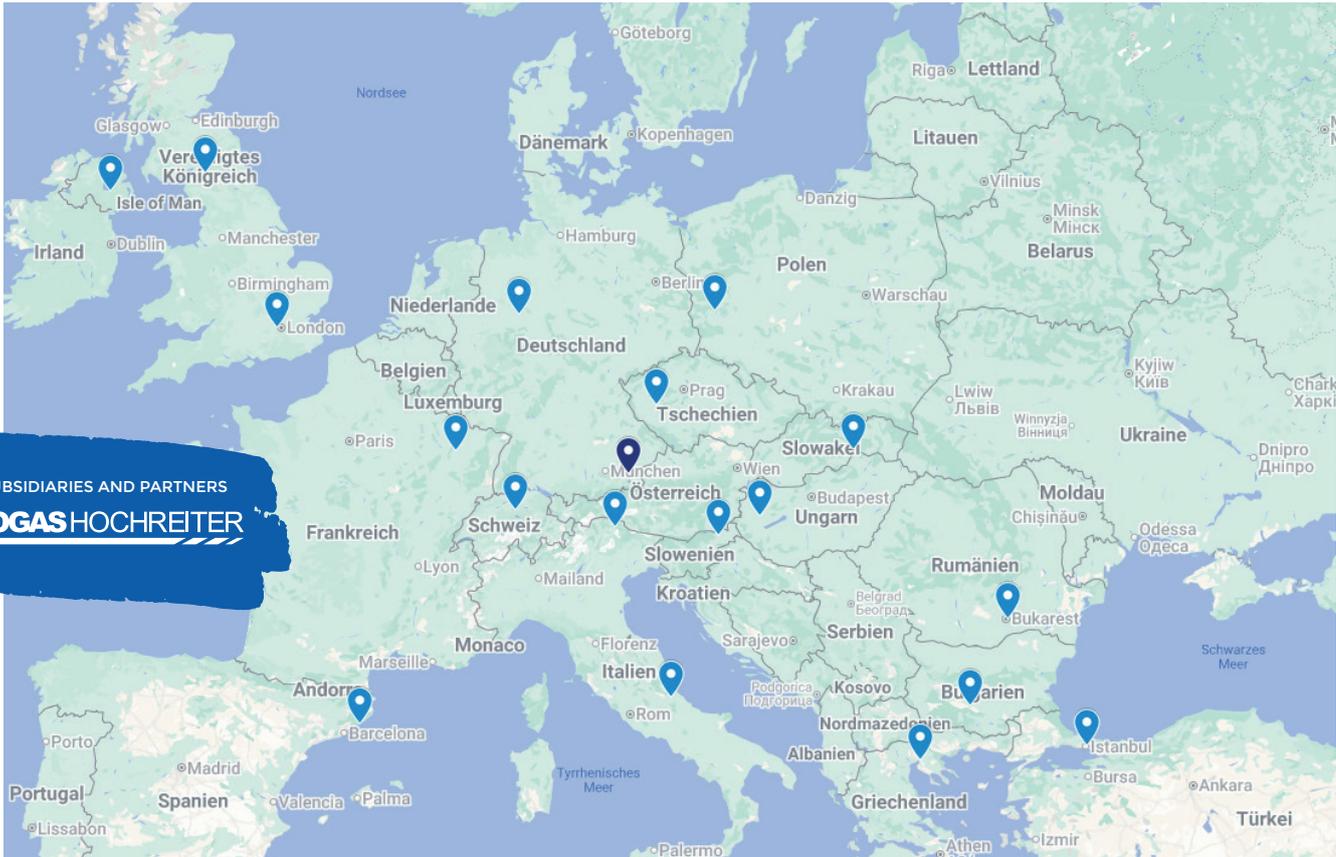
such as modern horizontal and inclined paddle agitators, feeding-systems and the advanced plant control system “MasterVizor” have shaped our efficient plant system for many years. Our **two company-owned biogas plants** serve as testing and development sites to optimize new technologies under real-world conditions.

After four decades of company history, Biogas Hochreiter stands for **efficient, reliable, well-designed and energy concepts for the future**.

From the roots of an agricultural family business, an internationally active company with several locations across Europe driven by innovation, practical experience, and the commitment to providing **sustainable, regional energy** for generations future.

**With nearly 3.000 plants realized worldwide,  
we meet the highest standards  
– reliable and efficient on every continent –**

# Our locations and partners



**Headquater Hochreiter, Germany**



**Brinkmeier Landtechnik, Brinkmeier, Germany**



**Biogaz Hochreiter France SARL, France**



**Hochreiter Türkiye, Turkey**



**Johann Hochreiter s.r.o, Czech Republic**



**Biogas Hochreiter Italien srl, Italy**



**Biogas Hochreiter S.L., Spain**



**Strojnik d.o.o, Slovenia**



**Hydrotube, Greece**



**Agrotrade Group spol.s.r.o, Slovakia**



**Alpha Energy Ltd, United Kingdom**



**Biogas 74 Ltd., Northern Ireland**



**ITEO Green Sp. z.o.o., Poland**



**C Geangu Consulting SRL, Romania**



**Biogas Tec AG, Switzerland**



**Dobmar Trade Ltd. Bulgaria**



**Capari es Tarsa Kft., Hungary**



**Hung van Truong, Vietnam**



**PT. Moreindo Energi Sahaja, Indonesia**



**Horst Kreimes, Malaysia**



**VIBest Global C., Ltd., Thailand**



**B.R. Lopes Engenharia Ambiental Ltda., Brazil**

# Project development

We support you from the very first consultation and initial sketch, through permitting and the construction phase, all the way to the first kilowatt hour fed into the grid – ensuring that your plant operates with long-term low maintenance, energy efficiency, and high performance.



Original plan



Completion

Our product range extends from small farm-scale biogas plants to powerful megawatt-class systems for industrial customers. All Hochreiter plants are characterized by high flexibility and can process a wide variety of substrates – even challenging ones – from slurry to solid manure, from renewable raw materials to organic residues.

## Advantages of Biogas Hochreiter Technology?



- ▶ **Over 40 years of experience** in construction, project planning, and manufacturing of biogas plants and their components
- ▶ Longterm operator of **two own biogas plants** with 1,837 kW and 1,972 kW installed capacity
- ▶ In-house development and production ▶ **Made in Germany**
- ▶ **Direct feeding** of substrates into the digester – no complex or cost-intensive shredding technology required
- ▶ **Large digesters** with long retention times, ensuring excellent gas yields in both quantity and quality
- ▶ **Overflow** system for substrate transfer between tanks – no pumping
- ▶ **Large-paddle agitators** for energy-efficient and durable operation
- ▶ We **assemble all plant components ourselves** ▶ avoiding complex interfaces

# Hochreiter CHPs

Type	Capacity	Cylinder	Electrical performance	Thermal performance
<b>HOMAN TE34</b>	4,58 litre	4	85 kW	101 kW
<b>HOMAN TE36</b>	6,87 litre	6	100 kW	126 kW
<b>HOMAN LE36</b>	6,87 litre	6	100 kW	124 kW
<b>HOMAN TE76</b>	12,82 litre	6	150 kW	178 kW
<b>HOMAN LE76</b>	12,87 litre	6	200 kW	224 kW
<b>HODEUTZ V6</b>	11,9 litre	6	220 kW	273 kW
<b>HODEUTZ V8</b>	15,9 litre	8	310 kW	410 kW
<b>HOMAN H3076</b>	12,3 litre	6	190 kW	220 kW
<b>HOMAN H130</b>	22,56 litre	12	420 kW	484 kW
<b>HOMAN LE62</b>	25,8 litre	12	530 kW	588 kW
<b>HOMAN LE72</b>	29,62 litre	12	700 kW	648 kW



## Facts

- ▶ Maintenance - friendly design
- ▶ External 360-liter auxiliary oil tank extends the oil change interval
- ▶ Electric pre-lubrication pump
- ▶ Large external oil cooler enables lower oil temperatures
- ▶ Reliable compliance with NOx limit values thanks to the Hochreiter SCR system
- ▶ Optional fully installed, ready-to-operate container solution available

Type	Capacity	Cylinder	Electrical performance
<b>TCG 3016</b>	17,5 litre	8	400 kW
<b>TCG 3016</b>	26,3 litre	12	600 kW
<b>TCG 3016</b>	35 litre	16	800 kW
<b>TCG 2020</b>	53,1 litre	12	1.200 kW
<b>TCG 2020</b>	70,8 litre	16	1.560 kW
<b>TCG 3020</b>	53,1 litre	12	1.380 kW
<b>TCG 3020</b>	70,8 litre	16	1.840 kW
<b>TCG 3020</b>	88,5 litre	20	2.030 kW



## Facts

- ▶ High reliability
- ▶ Optimal efficiency with low operating costs
- ▶ Very low oil consumption with high performance
- ▶ Low maintenance costs thanks to long service intervals

# JENBACHER Genset

Type	Capacity	Cylinder	Electrical performance	Thermal performance
<b>JMS 312</b>	12 litre	12	635 kW	640 kW
<b>JMS 316</b>	16 litre	16	850 kW	875 kW
<b>JMS 320</b>	20 litre	20	1066 kW	1093 kW
<b>JMC 320</b>	20 litre	20	1066 kW	1087 kW
<b>JMS 412</b>	12 litre	12	935 kW	914 kW
<b>JMS 416</b>	16 litre	16	1248 kW	1212 kW
<b>JMS 420</b>	20 litre	20	1562 kW	1515 kW
<b>JMC 420</b>	20 litre	20	1562 kW	1504 kW



## Facts

- ▶ Advanced technology and top-level reliability
- ▶ Optimized control and monitoring concept
- ▶ Maximum cost-effectiveness thanks to long service intervals and low fuel consumption
- ▶ Excellent efficiency
- ▶ Pre-installed container solution with all system components perfectly tailored to the specific requirements

# SCR Catalysts for CHP Units

As a specialist in exhaust gas treatment, we offer **customized SCR systems** for CHP units to reliably meet even the strictest emission standards. Our solutions efficiently reduce nitrogen oxides (NO<sub>x</sub>) and enable environmentally friendly, legally compliant, and economically optimized plant operation.

## Our expertise – your advantage:

**Professional installation:** We design, supply, and install SCR catalysts precisely tailored to your engine output, plant configuration, and applicable emission guidelines.

**Maximum efficiency:** State-of-the-art catalyst technology ensures stable NO<sub>x</sub> reduction even under fluctuating operating conditions — delivering consistently low emission levels.

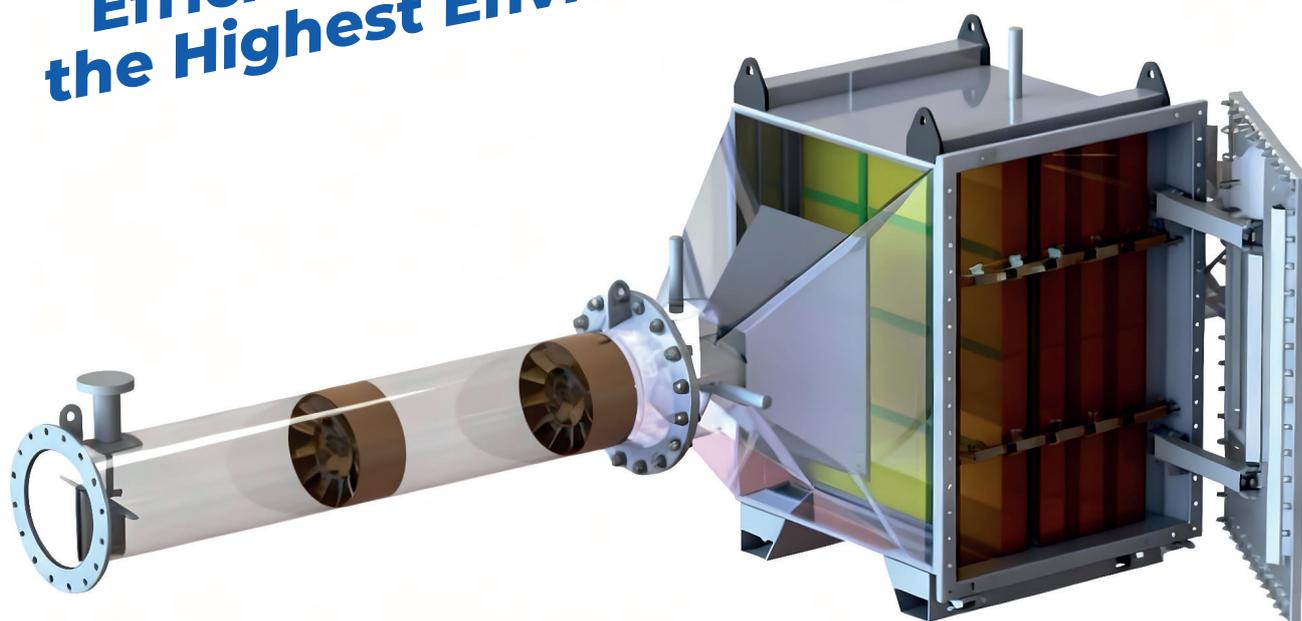
**Robust and durable components:** All components are designed for demanding continuous operation and flexible CHP operation, ensuring long service life.

**Intelligent control:** We use customized monitoring and dosing systems to optimize urea consumption and continuously monitor exhaust gas values.

**Service & maintenance from a single source:** Regular inspections, cleaning, replacement, and system updates ensure smooth long-term operation of your SCR system.

**The result:** Reliable CHP operation in full compliance with current environmental regulations.

**Efficient Exhaust Gas Cleaning for  
the Highest Environmental Standards**



# Electrical Engineering

We support you from precise electrical planning to the wiring of your biogas plant and final commissioning — including dependable **service and fast support** in case of faults.

Our electrical department manufactures customized control cabinets specifically designed for the requirements of your biogas plant. The use of **high-quality components** and structured, standards-compliant workmanship ensures maximum **operational safety**.

We integrate modern control and automation technology, including intuitive operation and remote monitoring via smartphone.



## MASTERVIZOR CONTROL SYSTEM

We tailor our in-house control system individually to your biogas plant.

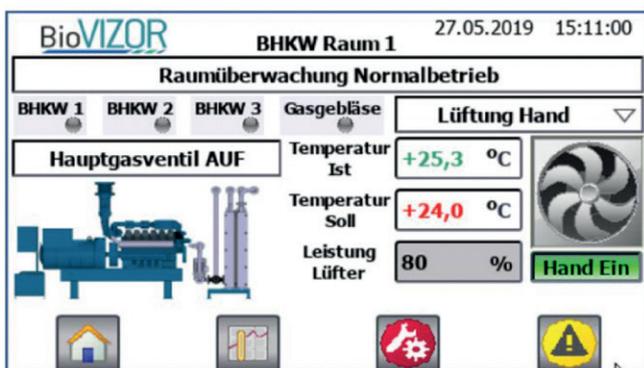
The intelligent, modular system is self-explanatory and **easy to operate**. If unexpected faults occur, the **integrated diagnostics system** immediately notifies you as the plant operator — via email, SMS, or phone call.

The clear diagnostic display lists all faults in detail, enabling targeted troubleshooting and fast resolution.



## BioVIZOR Room Monitoring

A visualized, centralized control system for **safety monitoring** of up to three CHP units, in accordance with the latest environmental requirements.

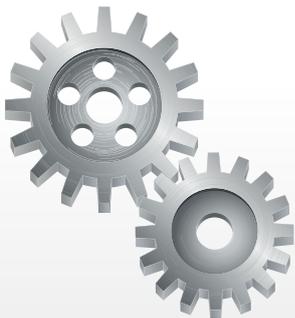
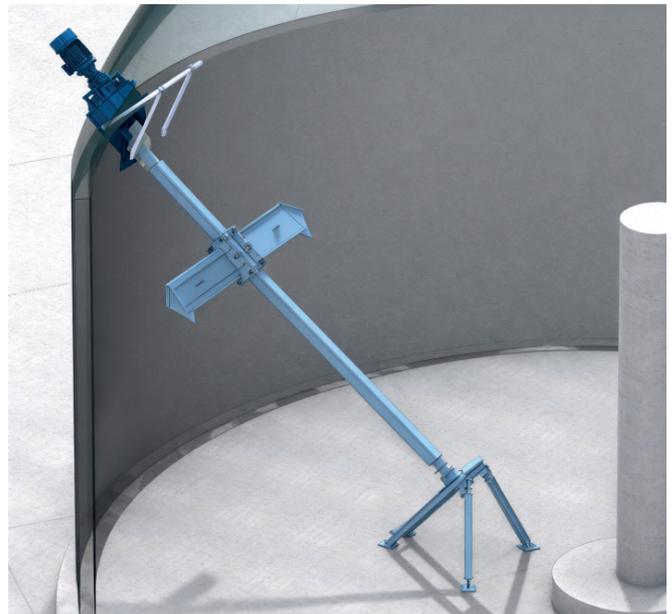


Room monitoring includes signal processing from gas detectors, smoke detectors, gas booster blowers, temperature monitoring, and automated control of ventilation systems, the main gas shut-off valve, and the emergency consumption unit in the event of a malfunction.

**Emergency alerts** are triggered via alarm horn and flashing light at the biogas plant and sent **directly to your smartphone**.

Additionally, the visualization system provides live monitoring of the fill levels of up to two gas storage units, enabling adapted and flexible plant operation.

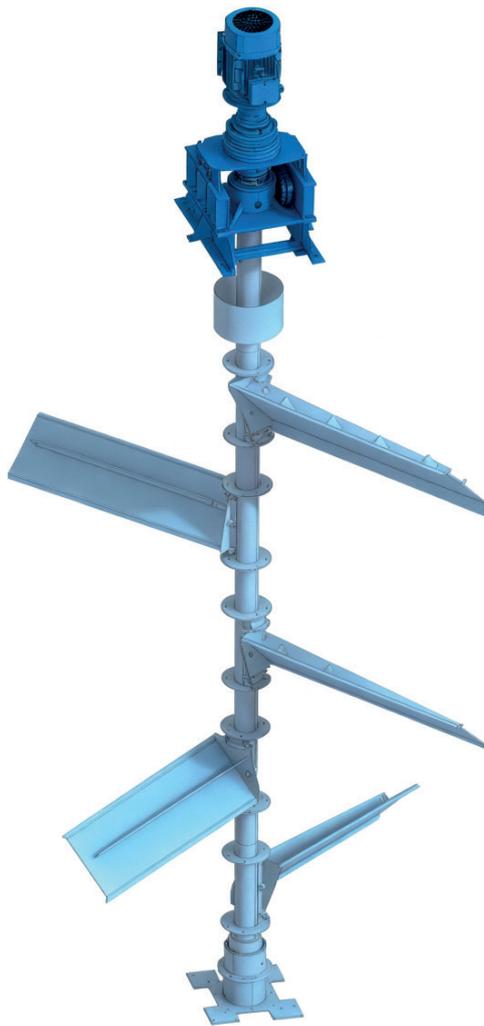
# Tsunami paddle agitator



## Facts

- ▶ Suitable for digesters, post-digesters and final storage
- ▶ Available for tank depths from 5.00 to 10.00 m
- ▶ 18.5 or 22 kW drive power
- ▶ Low energy consumption thanks to frequency-controlled operation
- ▶ Stepless adjustment of stirring performance
- ▶ Paddle diameter up to 5.20 meters
- ▶ Available with fixed paddles or as a floating unit
- ▶ Maintenance-friendly ▶ easily accessible drive unit outside the tank
- ▶ Reliable 3-stage planetary gearbox
- ▶ Optional automatic lubrication system available

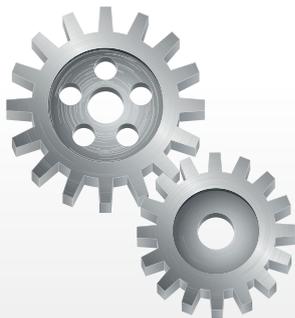
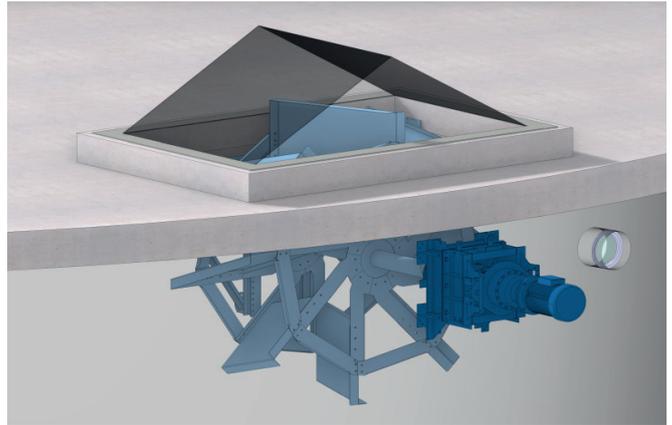
# Steinauer paddle agitator



## Facts

- ▶ Suitable for digesters, post-digesters and final storage
- ▶ Available for tank depths from 3.00 to 10.00 m
- ▶ 18.5 or 22 kW drive power
- ▶ Low energy consumption due to frequency-controlled operation
- ▶ Stepless adjustment of stirring performance
- ▶ Paddle diameter of 4.20 meters
- ▶ Available with 4 to 6 paddles
- ▶ Maintenance-friendly ▶ easily accessible drive unit outside the tank
- ▶ Reliable 3-stage planetary gearbox
- ▶ Optional automatic lubrication system available

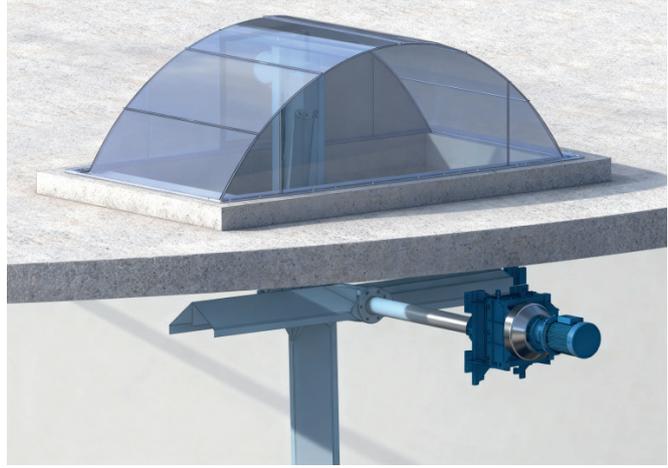
# Rührgiagl paddle agitator



## Facts

- ▶ Suitable for digesters and post-digesters
- ▶ 18.5 kW drive power
- ▶ Low energy consumption due to frequency-controlled operation
- ▶ Paddle diameter of 2.40 meters
- ▶ Maintenance-friendly ▶ easily accessible drive unit outside the tank
- ▶ Reliable 3-stage planetary gearbox
- ▶ Optional automatic lubrication system available

# Mississippi paddle agitator



## Facts

- ▶ Suitable for fermenters and post-digesters
- ▶ 18.5 kW drive power
- ▶ Low energy consumption due to frequency-controlled operation
- ▶ Paddle diameter of 4.20 meters
- ▶ Reliable 3-stage planetary gearbox
- ▶ Maintenance-friendly ▶ easily accessible drive unit outside the tank
- ▶ Optional automatic lubrication system available

# Fuada Sepp Feeding System



## Facts

- ▶ As a single feeder with 10 m<sup>3</sup>, 20 m<sup>3</sup>, 24 m<sup>3</sup>, 34 m<sup>3</sup>, 40 m<sup>3</sup> or 50 m<sup>3</sup>
- ▶ As a double feeder with 68 m<sup>3</sup>, 80 m<sup>3</sup> or 100 m<sup>3</sup>
- ▶ 7.5–11 kW drive power per screw
- ▶ As ceiling or side feeding system, or with vertical conveying technology
- ▶ Heavy-duty screws with 500 mm diameter (optionally fully stainless steel) ensure low energy consumption
- ▶ Stainless steel trough
- ▶ Weighing system with large digital display
- ▶ Visualized control panel

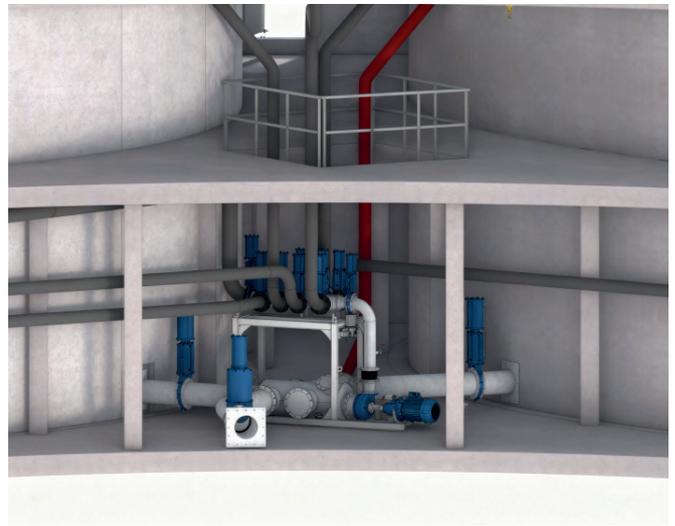
# Walking Floor Feeding System



## Facts

- ▶ Volume options: 56 m<sup>3</sup>, 82 m<sup>3</sup>, and up to 108 m<sup>3</sup>
- ▶ 5.5 kW hydraulic unit
- ▶ 12 hydraulically driven push bars made of stainless steel
- ▶ 2.2 kW per milling roller (optional with central lubrication)
- ▶ Side feeding or vertical conveying technology
- ▶ Visualized control system, large digital display with dosing log
- ▶ No corrosion issues thanks to an inner trough made of acid-resistant PE and laminated plywood
- ▶ Economical operation due to low power consumption

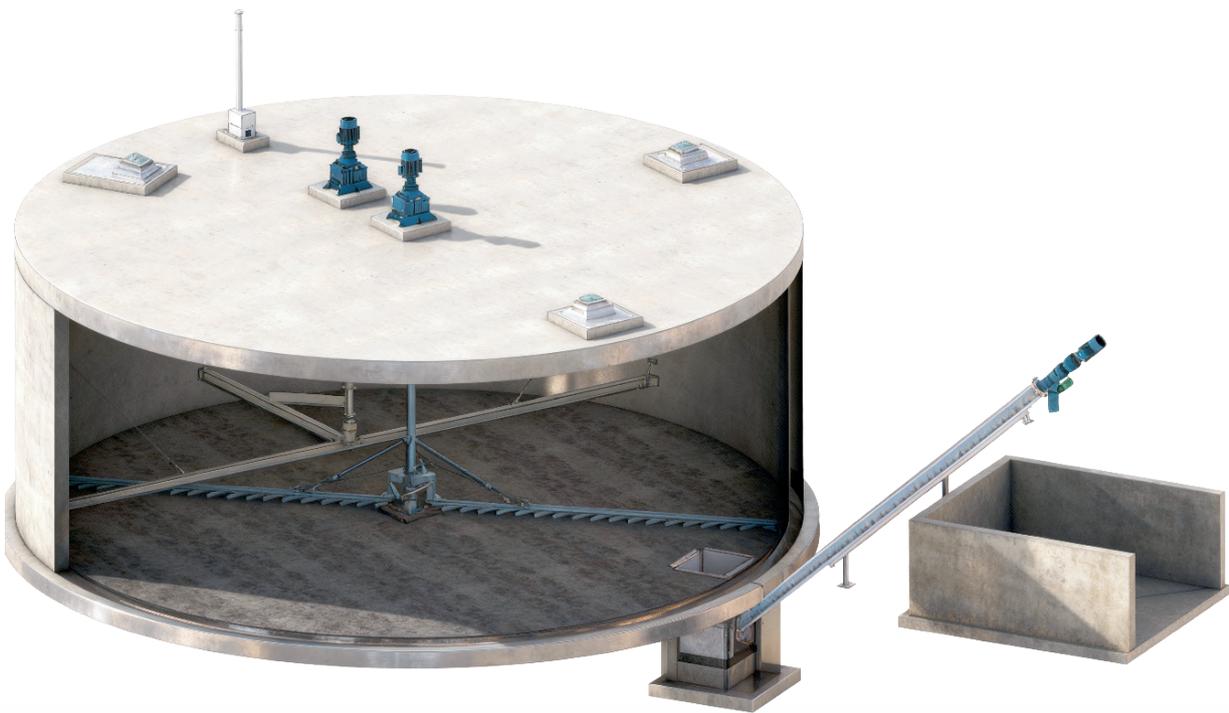
# Pump station



## Facts

- ▶ 18.5, 22 and 30 kW drive power
- ▶ Stainless steel housing with 5 inlets (DN300)
- ▶ Integrated distribution bar with 5 to 11 outlets
- ▶ High conveying capacity thanks to a robust centrifugal pump
- ▶ Equipped with an automatic central lubrication system
- ▶ Optional flow measurement available
- ▶ Optionally compatible with other pump types, such as exentric screw pumps

# Sand scraper



## Facts

- ▶ Only 1.35 kW drive power
- ▶ Suitable for tank diameters up to 16 m and heights up to 10 m
- ▶ Single or double rake arm
- ▶ Suitable for subsiding materials such as sand, stones, etc. (e.g. from laying then manure)
- ▶ Reliable planetary gearbox
- ▶ Sand discharge screw with heavy-duty screw flights
- ▶ Up to 95% reduction of settling solids in downstream tanks
- ▶ Economical operation due to slow rotation (1 rpm)

# BIOMETHANE

Biomethane is one of the most important renewable energy sources of our time. By upgrading biogas, a high-quality, climate-neutral gas is produced that can fully replace natural gas – flexible in use, storable, and ideal for a sustainable energy supply.

## Our expertise in biomethane:

**We support new customers and operators of biogas plants on their path toward biomethane production** – from technical concept development and plant optimization to the integration of modern upgrading technology. Our know-how ensures efficient processes, high methane yields, and maximum operational reliability.

## Your benefits with biomethane:

**Climate-neutral energy:** Biomethane actively contributes to CO<sub>2</sub> reduction and helps meet national and international climate targets.

**Grid injection:** The upgraded gas meets natural gas quality standards and can be marketed directly or used flexibly.

**Fuel production:** Biomethane in the form of CNG or LNG is an environmentally friendly alternative fuel.

**Independence & profitability:** Attractive marketing models provide long-term revenue and increase the economic efficiency of the plant.

**CO<sub>2</sub> production:** As a by-product, CO<sub>2</sub> can be refined for use in the food and beverage industry.

**High efficiency:** Modern upgrading systems (e.g., membrane technology, PSA, or amine scrubbing) ensure stable methane levels and efficient operation.

**Sustainable circular economy:** Using digestate as fertilizer closes the material cycle and strengthens regional value creation.



*Biomethane is more than just an energy carrier – it is a key component of the energy transition and a promising long-term economic perspective for biogas plant operators.*



## Facts

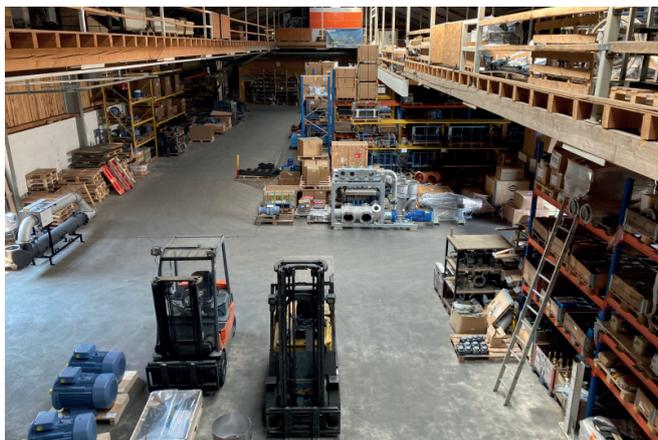
- ▶ Successfully implemented numerous biomethane-ready biogas plants
- ▶ Biomethane is climate-friendly and environmentally friendly
- ▶ Replaces fossil energy sources as a renewable heating and transport fuel
- ▶ Improved CO<sub>2</sub> balance
- ▶ Supports an autonomous and regional energy supply

# Installation + Support Services

With our dedicated and experienced installation and service teams, we offer comprehensive support for your biogas plant. **We handle the full installation of the biogas technology** and ensure that all necessary maintenance is scheduled and managed promptly.

Thanks to our 2,500 m<sup>2</sup> storage facility, we ensure **optimal availability of spare parts**.

Whether the issue is biological, mechanical or electrical, we always have the right expert for you and will find a solution as quickly as possible.



## Facts

- ▶ 2,500 m<sup>2</sup> spare parts warehouse
- ▶ 12,000 items in stock
- ▶ Easy and convenient spare parts ordering via 
- ▶ Express delivery on working days
- ▶ Maintenance contracts as all-inclusive service packages
- ▶ Gas engine repair and complete overhaul
- ▶ Wide range of engine spare parts
- ▶ Exhaust emission measurements in accordance with environmental protection requirements
- ▶ Consulting for conversions, extensions, and modifications

**Through remote maintenance, we can provide assistance seven days a week.**

# BIOGAS HOCHREITER

*Energy for the future*

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