

PRESS RELEASE

BIOGAS Convention & Trade Fair: Vogelsang presents its new generation of PreMix solid matter feeders for the first time

- **PreMix IC: Complete solution for OEMs**
- **PreMix ICC: System solution for biogas plant operators**
- **HiCone: Progressive cavity pump with conical rotor-stator geometry**

Essen (Oldenburg), November 7, 2023 – At the **BIOGAS Convention & Trade Fair (December 12–14, 2023, Nuremberg)**, [Vogelsang GmbH & Co. KG](https://www.vogelsang.com) will showcase innovative systems and components from its outstanding range of solid matter feeding, pumping and separation technology. In **hall 9** at **booth D26**, the engineering company will present the new generation of PreMix solid matter feeders in two variants: the PreMix IC (Intelligent Control), the complete solution for OEMs and the PreMix ICC (Intelligent Control Comfort), the fully pre-assembled system solution for biogas plant operators. Both models feature even better performance, longer service life, reduced operating costs and lower energy consumption. The HiCone progressive cavity pump and the XSplit press screw separator will also be on display at the booth.

“Reliable solid matter feeding is a prerequisite for efficient biogas production. If it doesn’t work or doesn’t work properly, it has a negative impact on the entire plant, reducing both gas yield and profitability,” says Michael Brinkmann, Director of Global Sales at Vogelsang. “To prevent this from happening and boost reliability, we have made further improvements to our globally proven PreMix solid matter feeder based on customer feedback from thousands of installations. We are very pleased to now present this new generation to a broad audience for the first time.”

PreMix: Solid matter feeder modified

Like the previous PreMix, the further developed solid matter feeder combines four work steps in one compact, space-saving unit. Users benefit from increased gas yields and the lower power consumption of the entire unit as well as outstanding reliability – even when processing challenging solid matter and in varying operating conditions. While the PreMix IC is a complete solution for OEMs, where the plant manufacturer installs the machine, integrates it into the higher-level control system and installs the safety elements, the PreMix ICC represents the previous, ready-made, plug-and-play system solution for end customers.

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In other words, the solid matter feeder is fully assembled, wired and ready for use – the end customer only has to set it up on-site, connect it and switch it on. As a closed system, both variants can be installed in closed rooms without any problems.

The modified, universal PreMix liquid feeding system is a combination of the HiCone progressive cavity pump and the RotaCut RCX wet cutter with a new variant of the ACCplus blade adjustment. This innovative solution not only automatically adjusts the blades, but also allows the contact pressure to be adapted to the substrate in question from the control room. The cutting performance of the RotaCut RCX can also be adjusted dynamically, reducing not only the power consumption of the RotaCut, but also minimizing wear on the cutting tools. As a result, service life has been increased by up to 100 percent and maintenance intervals are extended.

HiCone progressive cavity pump: low maintenance and low wear

As a further element of the PreMix, the HiCone progressive cavity pump features reduced life cycle costs thanks to its long service life and lower energy consumption. The conical shape of the rotor and stator allows for precise adjustment and there is no need for costly, time-consuming parts replacement, effectively multiplying the service life of the pump. If a gap develops between the rotor and stator due to wear, it can be compensated for during operation. The rotor is adjusted axially and the progressive cavity pump is again in as-new condition, ensuring constant conveying capacity with high efficiency. Instead of costly, time-consuming parts replacement, the HiCone can be simply and quickly readjusted, effectively increasing the service life of the device many times over. Downtimes for replacing worn parts in the solid matter feeding system are therefore significantly reduced.

At the booth, the HiCone progressive cavity pump will also be on display as a stand-alone solution.

Increased automation for efficient solid matter feeding

The standard built-in responsive 10-inch touch display makes the PreMix easier than ever to use. The machine automatically regulates itself within the optimum range to ensure efficient solid matter feeding. All the key parameters and settings can be configured either directly from the control room or via remote control. With condition monitoring for the pump and cutter, users also have a constant overview of the status of wear parts, enabling them to plan replacements well in advance.

XSplitt: Innovative separation technology for slurry and digestate treatment

In addition, Vogelsang will be presenting the XSplitt press screw separator for the solid-liquid separation of slurry and digestate. The innovative concept of the XSplitt has an impressively high cost-benefit ratio, is low-maintenance and service-friendly and achieves a dry substance content of up to 40 percent. Vogelsang offers the press screw separator both as an individual component and as a system solution.

**Vogelsang at the BIOGAS Trade Fair, December 12–14, 2023, Nuremberg:
hall 9, booth D26**

We would be delighted to arrange a **personal appointment** for you at the Vogelsang booth on request. Please feel free to get in touch:

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About Vogelsang:

Vogelsang GmbH & Co. KG, headquartered in Essen (Oldenburg) in Lower Saxony, develops, produces and sells technically high-quality, individually configurable, service-friendly machines. Founded in 1929, the company grew from manufacturing agricultural machinery to specializing in machines and solutions in the wastewater, agricultural technology, biogas, industrial and transportation technology segments. The innovative family-owned company currently employs over 1,300 people worldwide. As an internationally oriented mechanical engineering group, the company ensures the highest product quality through research, development and production at its Essen location and other production facilities, both in Germany and abroad. With 30 subsidiaries and other representatives, Vogelsang is present in over 50 countries around the world. The company has already received several accolades from the economic research institute Prognos AG, including the award “Germany’s innovation leader.” Further information can be found online at: vogelsang.info

Images:



Image 1: Reliable solid matter feeding – the further developed PreMix liquid feeding system.



Image 2: The PreMix is a combination of the HiCone and the RotaCut RCX with a new variant of the ACCplus blade adjustment.



Image 3: Unique geometry – the HiCone is characterized by the conical shape of the rotor and stator.



Image 4: The XSplit press screw separator – innovative separation technology, available as a system solution (shown) or as a stand-alone version.

Source of all images: Vogelsang GmbH & Co. KG