

## PRESS RELEASE

### Unique geometry and innovative setting system: Vogelsang presents new HiCone® progressive cavity pump

- **Innovative design: conical shape of rotor and stator**
- **Individual setting system for maximum energy efficiency**
- **High profitability and durability**

**Essen (Oldenburg), Germany, November 24, 2022** – [Vogelsang GmbH & Co. KG](#) has launched a new progressive cavity pump for use in biogas plants. The conical form, combined with an innovative setting system, saves energy and significantly extends the service life. “With the HiCone, we are once again setting new standards for progressive cavity pumps. We have met the demands of our customers for reduced life-cycle costs and longer service times with the further development of our technology,” says Rainer Zobel, Director Sales EU Biogas, Industry and Wastewater at Vogelsang. The HiCone supports pumping capacities of up to 290 m³/h.

#### **Readjust instead of changing parts: lower costs with consistently high pumping performance**

If a gap arises between rotor and stator due to wear in operation, the capacity drops. Whereas with conventional progressing cavity pumps, this often means a sudden drastic fall of the pump performance and the replacement of the rotor and stator, the HiCone solves this with axial readjustment of the rotor. The conical shape ensures the gap is regulated, as a result of which the pump is back to its original condition and the pumping capacity returns to 100 percent. Instead of the costly and time-consuming changing of parts, there is a quick and easy adjustment – during ongoing operation.

Combined with Vogelsang’s integrated QuickService concept, this means significantly reduced life-cycle costs for the user and higher pump availability, since there are no elaborate service deployments. If replacement is nevertheless necessary, the rotor-stator unit is swung out and can then be renewed either as a unit or individually. A wear-resistant sleeve, which does not need to be unmounted to change parts, protects the sturdy cardan shaft.

#### **Lower electricity requirement for increased energy efficiency**

Thanks to the clever adjustment system, rotor and stator can be optimally positioned to

each other according to operating parameters like pressure, temperature and viscosity. This results in lower power consumption, which reduces the electricity requirement. Wear is also reduced at the same time.

In addition, the HiCone's automatic start-up saves power. The positioning of the rotor and stator in relation to each other is in such a way, that there is only minimal clamping between them. This means that a smaller motor is needed to ramp up the pump than in conventional progressive cavity pumps, which reduces the power requirement when starting the pump to a minimum. This increases the energy efficiency and reduces the costs for power electronics. The result is lower electricity costs and reduced procurement expense for users. The start-up process is fully automatic without the need for additional control. The clamping between the rotor and stator can be adjusted during the entire service life at the touch of a button or at the click of a mouse from the control room.

Zobel: "Another advantage for users is that they can view the status of the pumping elements in a real-time display. Instead of being surprised by a sudden failure, they receive continuous information and can plan parts changes in advance." Furthermore: "Our customers need technology that is long-lasting and can be flexibly adapted to differing pumping tasks and operating parameters. The HiCone gives them a highly efficient pump, which can be individually adjusted and readjusted."

More at: [vogelsang.info](http://vogelsang.info)

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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 and 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 company currently employs over 1,200 people worldwide. As an internationally oriented mechanical engineering group, the company ensures the highest product quality through research, development and production at the Essen location and in other production facilities in Germany and abroad. Thanks to a continuously growing network of subsidiaries and sales offices, Vogelsang operates at over 50 locations 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](http://vogelsang.info)

### Images:



**Image 1:** Energy-efficient and durable: the new HiCone progressive cavity pump from Vogelsang.



**Image 2:** The HiCone is distinguished by a unique rotor-stator geometry.



**Image 3:** HiCone: The integrated QuickService concept ensures higher availability of the pump.



**Image 4:** Thanks to the clever adjustment system, the HiCone can be flexibly adapted to different operating parameters.

**Image source for all images: Vogelsang GmbH & Co. KG**