

PRESS RELEASE

Vogelsang HiCone progressive cavity pump offers long service life and low life cycle costs

- **Conical shape of rotor and stator enables precise form readjustment**
- **Adjustment system for individual adaptation to operating parameters in wastewater treatment plants and sewage systems**
- **High energy efficiency, long service life**

Essen (Oldenburg), October 24, 2023 – With the HiCone, [Vogelsang GmbH & Co. KG](#) has launched the first progressive cavity pump that enables precise form readjustments. As a result, it maintains consistently high levels of conveying capacity and energy efficiency. The HiCone is suitable for applications in industry, wastewater and environmental technology. “Due to the conical shape of the rotor and stator, exact readjustments are possible. Unnecessary pressing and squeezing of the stator rubber to ensure internal sealing again are no longer necessary,” says Michael Brinkmann, Director of Global Sales at Vogelsang.

Long service life due to readjustment

This is made possible by the conical rotor-stator geometry. If a gap occurs between the rotor and stator as a result of wear, it can be compensated for during ongoing operation. The rotor is adjusted axially. The size of the conveying chambers, the conveying capacity and the efficiency are the same as at the time of delivery, ensuring constant conveying capacity with high efficiency. Instead of costly, time-consuming parts replacement, the HiCone can be simply and quickly readjusted, increasing its service life many times over.

Individual readjustment to operating parameters

The smart adjustment system allows the HiCone to be individually adapted to the respective operating parameters, such as pressure and temperature, by optimally positioning the rotor and stator in relation to each other. Michael Brinkmann: “In wastewater treatment plants, for example, the pumping technology needs to withstand high pressures in some cases. If the rotor and stator are ideally adjusted accordingly, the contact pressure between the conveying components, and thus the wear, is reduced to a minimum.” Furthermore: “In terms of energy efficiency, the HiCone’s smart adjustment system has another advantage, i.e., it requires less energy and the automatic start-up system also enhances this effect.”

Energy efficiency due to minimal clamping

Because the rotor and stator are positioned relative to each other to minimize clamping between the two, a smaller motor is required to start the pump than in conventional progressive cavity pumps. This reduces the torque to a minimum when starting up the pump, which in turn improves energy efficiency. The start-up process is fully automatic without the need for additional control. At the push of a button or the click of a mouse, the clamping between the rotor and stator can be regulated from the control room throughout the entire service life during operation, as well as monitored for wear. This innovation ultimately makes it possible to plan the replacement of the rotor-stator package.

In combination with Vogelsang's integrated QuickService concept, the user has a durable, highly efficient pumping technology that can be flexibly readjusted to suit a broad range of pumping tasks and operating parameters.

For more information, visit: 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, 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: Energy-efficient and durable: The HiCone progressive cavity pump from Vogelsang.



Image 2: Unique geometry: The HiCone is characterized by the conical shape of the rotor and stator.



Image 3: The smart adjustment system allows the HiCone to be flexibly readjusted to suit a variety of operating parameters.

Source of all images: Vogelsang GmbH & Co. KG