



Press Release

Vogelsang at EuroTier & EnergyDecentral 2016: Technology for optimal solid matter treatment and feeding

- **The new DisRuptor disintegrator: Winner of the EnergyDecentral Innovation Award 2016**
- **Efficient separation of foreign matter with DebrisCatcher**
- **IQ rotary lobe pump for biogas plants**

Essen (Oldb.), October 10th, 2016 – At this year's **EuroTier & EnergyDecentral from November 15th to 18th, 2016 in Hanover (Hall 25, Booth E18)**, Hugo Vogelsang Maschinenbau GmbH will be presenting its new products for solid matter treatment and feeding – directly linked to the BIOGASmax consultancy services for repowering biogas plants.

"Trouble-free conditioning and feeding of input substances is key to the economic efficiency of biogas plants," explains Harald Vogelsang, Managing Director of Vogelsang. "Vogelsang offers solutions for an extensive variety of substrates. This enables plant operators to use a wide range of different substances for rapid, efficient and low-cost energy production."

DisRuptor: Economical concept for mechanical disintegration

With the DisRuptor, Vogelsang presents a new system for mechanical/physical disintegration of substrates. On November 14th, Vogelsang will be awarded the **EnergyDecentral Innovation Award 2016** for its innovation. The DisRuptor's functional unit contains a rotor equipped with wings that turns at high speed. In a narrow gap between the rotor unit and exterior ring, the DisRuptor crushes and grinds solid matter. Unlike conventional systems, the DisRuptor can be individually adapted to the relevant application and the substrate via a sophisticated adjustment mechanism. Due to this unique feature, the flexible functional unit can attain a significantly higher flow capacity at a reduced power consumption of up to 80 m³/h organic suspension with an installed capacity of 15 kW, thereby ensuring more efficient substrate treatment.

The DisRuptor enlarges the contact surfaces for bacteria and reduces viscosity of the organic suspension. The larger material surface enables faster conversion of substrates into biogas. This decreases the power consumption as well as running times of mixers, prevents floating layers and increases the specific gas yield in the long term. "Due to the lower operating costs per m³ of disintegrated substrate, investing in substrate disintegration with a DisRuptor will pay for itself within a short time," explains Vogelsang Sales Manager Markus Liebich.

**DebrisCatcher: Active foreign matter separation and coarse reduction**

With the DebrisCatcher, Vogelsang has extended its portfolio for protection of plant components against foreign matter and coarse objects. It ensures efficient separation of heavy material in a housing optimized by fluid dynamic simulations. Coarse matter and clumps contained in fluid flows are reduced to an unproblematic manageable size at the strainer by a slow-turning unclogger. In this way, the DebrisCatcher prevents damage to pumps and valves as well as blockage due to harmful solids and coarse matter. The drive shaft is supported by a counter bearing, which ensures a high level of stability. The low speed of the unclogger means a low drive power is sufficient for reliable protection at flow rates of up to 150 m³/h at 13% DM content.

The DebrisCatcher is particularly suitable for biogas plants that do not require any further reduction as the substrate is already finely chopped, like maize silage, but where the plant still needs to be protected from foreign matter and coarse objects. These frequently occur in fresh liquid manure for example. Combined with the Debris Removal System by Vogelsang the DebrisCatcher can discharge the separated foreign matter fully automatically without any interruption to operation or opening of the machine.

IQ rotary lobe pump: Now for biogas plants too

Vogelsang will be presenting its new and innovative IQ152 rotary lobe pump series for biogas applications. The IQ152 pumps attains delivery rates of up to 154 m³/h at pressures of up to 7 bar and is distinguished by its user-friendly design. The pump chamber comprises a central component that can be dismantled in just a few turns of the hand. Access to the delivery elements provides for easy service and maintenance work while the pump itself remains securely mounted inline. The number of essential spare parts has been reduced by half so that both the costs and the time required to replace wear parts has been significantly reduced. The standard integrated liquid reservoir and the InjectionSystem prevents damage by foreign matter and dry running of the pump while at the same time, increases suction capacity. Variable connections make assembly easier and ensures all common installation situations are possible.

Optimal solid matter feeding even for small biogas plants

Modified sizes of CC-Mix and PreMix solid matter feeder, specially designed for the requirements of small biogas plants, are another new addition to our product portfolio. Based on our tried-and-tested PreMix and CC-Mix units, they are a particularly economical solution for solid matter feeding for small plants of up to 150 kW.

Vogelsang at EuroTier, November 15th to 18th, 2016, Hanover exhibition centre:

Products for the biogas sector: Hall 25, Booth E18

Products for the agricultural sector: Hall 27, Booth A37

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About Vogelsang:

Hugo Vogelsang Maschinenbau GmbH is an internationally active plant engineering company based in Essen/Oldenburg, Lower Saxony, Germany. The company was founded in 1929, and grew from being a manufacturer of agricultural machinery into a specialist for pump, shredding, distribution and spreading technology for the agricultural and biogas sector, industry and local authorities. Today, Vogelsang's main areas of business alongside agriculture are biogas and waste water technology as well as vacuum disposal technology. Vogelsang currently employs around 700 employees worldwide. The corporate group includes over 20 branch offices, subsidiaries and sales offices as well as two production locations in Germany. Due to its global network of dealers the company is able to export its products to all European countries and important industrial nations worldwide. For more information: www.vogelsang-gmbh.com



Images:



Image 1: DisRuptor: Adjustable concept for mechanical disintegration

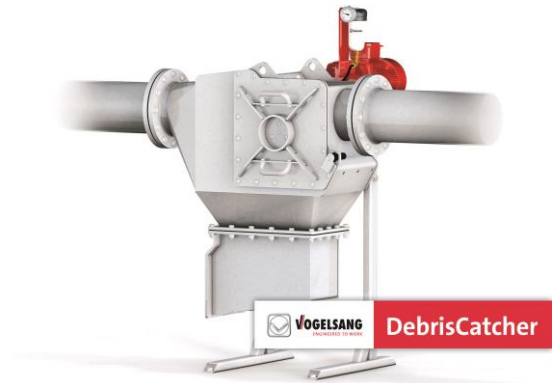


Image 2: DebrisCatcher: Active foreign matter separation and coarse objects reduction



Image 3: IQ152: Easy to maintain rotary lobe pump for biogas plants

Source for all images: Vogelsang