



THE PUMP REVOLUTION

The unique HiCone® progressive
cavity pump with groundbreaking
adjustment system

VOGELSANG – LEADING IN TECHNOLOGY

NEW

VOGELSANG



OPTIMALLY TUNED FOR LONG SERVICE LIFE

The interplay of unique geometry and an innovative adjustment system saves energy and extends the service life of the new HiCone® progressive cavity pump



HiCone progressive cavity pump

After years of being out of the spotlight, biogas has finally come back into focus as a sustainable and flexible energy source. The challenge: developing an efficient technique that enables lower prices for production and supply.

As the inventor of the elastomer-coated rotary lobe pump, the RotaCut wet cutter with integrated heavy material separator, and many other groundbreaking machines and devices for the economical production of biogas and the utilization of digestate, it's only natural that Vogelsang has also worked toward optimizing the operating principle of progressive cavity pumps. We have already made a decisive breakthrough that helps plant operators by implementing rapid parts replacement for pumps in the CC series. The new progressive cavity pumps of the HiCone series furthermore feature a revolutionary, conical geometry and clever adjustment system, which enables longer service life than ever before while significantly reducing overall lifecycle costs.

Adjustable setting with extraordinarily easy handling

In order to react quickly and easily to different pumping tasks, the clamping between the rotor and stator of the pumps can be adjusted accordingly during operation. At the touch of a button or a mouse click in the control, the pump elements can be directly and precisely adjusted to operating parameters such as pressure, viscosity or temperature of. This keeps energy consumption as well as wear and tear at a minimum.

Maximum availability at the lowest possible power consumption

The result: a service life that is several times longer and an extremely high availability compared to conventional progressive cavity pumps. This represents a significant cost advantage, especially since the lower power consumption, which is always kept to a minimum, leads to further savings. In addition, simply starting up a HiCone series pump consumes significantly less electricity than usual. The reason for this is the intelligent automatic start-up system, which makes it possible to use smaller and therefore less expensive motors and power electronics to achieve the same result. At the same time, this start-up feature ensures energy-efficient operation, particularly with short pump cycles.

A NEW ERA

The pinnacle of efficiency: The durable HiCone® progressive cavity pump with QuickService functionality

Even the proven CC series pumps had already helped to avoid long downtimes thanks to their reliability and durability. And now, Vogelsang's new HiCone series pumps require even less maintenance, thanks to the unique, conical geometry of the pumping elements and the associated adjustment options. Users benefit from significantly longer service life and higher availability – leaving them with more time for essential tasks.



The current wear status of the pumping elements is displayed continuously. If a service call is required, it can be planned in advance. Even the pumps of the latest generation benefit from the proven QuickService principle when it comes to parts replacement. The swiveling mechanism enables quick and easy replacement of the pumping elements, with no need to remove the pump from the pipe system. In just a few simple steps, the stator and rotor can be removed and replaced as a complete unit – including the cardan shaft, if necessary.

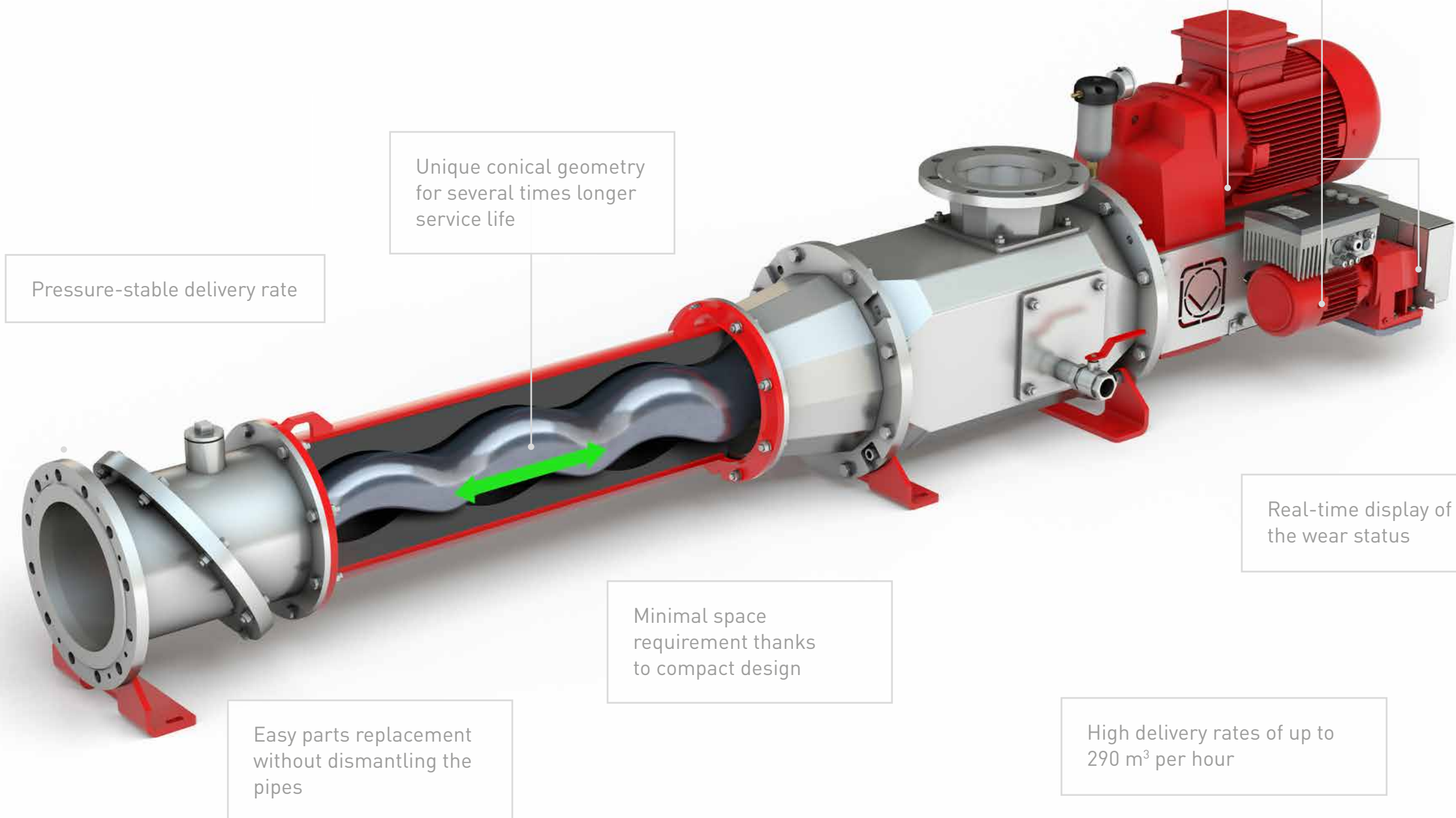
And replacing the pre-assembled mechanical seal is just as easy: it can be replaced from the side after removing the geared motor.



Advantage of the HiCone®

- Reduced lifecycle costs
- Several times longer service life
- Optimal adjustment for maximum efficiency
- Intelligent automatic start-up for minimal power consumption on start-up
- Easy to maintain and low maintenance
- Features status indicator to avoid unexpected failures

New and only at the innovation leader:
The one that does it all



Pressure-stable delivery rate

Unique conical geometry for several times longer service life

Patent pending adjustment system for minimal lifecycle costs

Intelligent automatic start-up system for lower power requirements

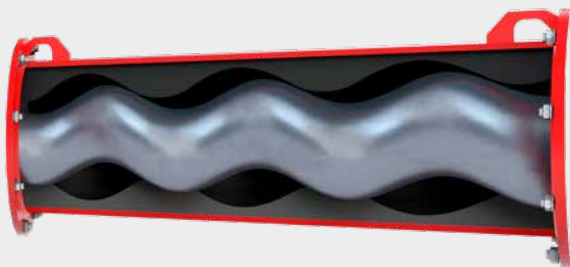
Adjustment of the pumping elements depending on the general conditions during operation

Real-time display of the wear status

Minimal space requirement thanks to compact design

Easy parts replacement without dismantling the pipes

High delivery rates of up to 290 m³ per hour



Unrivalled economy thanks to the conical shape for precise clamping

The unique, forward-tapering geometry of the rotor and stator enables ideal adjustment to the given flow medium. Biogas plant operators benefit from an unprecedented extension of service life and a far superior cost/performance ratio when using a HiCone progressive cavity pump compared to conventionally designed models.

SPECIFICATIONS

Size	Max. delivery rate	Max. pressure	Max. speed	Free passage
	m ³ /h	bar	min ⁻¹	mm
HiCone 44	37	12	350	48
HiCone 55	75	12	350	62
HiCone 66	150	12	300	78
HiCone 77	290	12	300	98

What we offer

We provide solutions in the following sectors:
AGRICULTURAL TECHNOLOGY, BIOGAS,
INDUSTRY, TRANSPORTATION, WASTEWATER



Our broad range of products and services

- Consulting and service
- Data management and control technology
- Disintegration technology
- Individually tailored solutions for special applications
- Pumps and pump systems
- Solid matter feeders
- Solids reduction, separators and mixers
- Spreading technology
- Supply, disposal and cleaning

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