



# SEPARATION REIMAGINED

The XSplit® Separator: efficient performance-  
easy to maintain

**VOGELSANG – LEADING IN TECHNOLOGY**







# Clean separation of solid and liquid

**The XSplit® separator: economical and easy to maintain thanks to innovative design**

**The XSplit separator from Vogelsang combines the proven concept behind press screw separators with a completely new design, resulting in unique features and many user advantages.**

When developing the new XSplit separator, Vogelsang took up the proven functional concept of the press screw separator, and redesigned the technical implementation. The drive is now arranged on the solid matter outlet side, which gives the XSplit an excellent cost-benefit ratio and unique features.

Positioning the drive behind the solid matter outlet means there's no need for an extra shaft seal. This reduces both, the costs of spare parts and the time required for maintenance work. Access to the sieve basket and press screw is also possible in a few simple steps. As you've come to expect from Vogelsang, service and maintenance work can be performed quickly and easily on-site. In addition, the startup behavior of the new XSplit separator is significantly quieter in comparison to standard separators on the market.

A sealing disc made of high-quality elastomer in the pressing area allows the XSplit to achieve a dry matter content of up to 40 percent – making it superior to other press screw separators. The disc ensures optimal resistance to the pressure applied by the press screw and, together with the press screw, ensures uniform and reliable plug formation without extra aids – with nearly zero initial leakage. A range of sieve variants suited to various media and consistencies is available, guaranteeing extremely reliable separation results.



Optimal separator  
start-up behavior

Minimal space requirement  
thanks to compact design

Wide range of sieve variants for reliable  
separation results with every medium

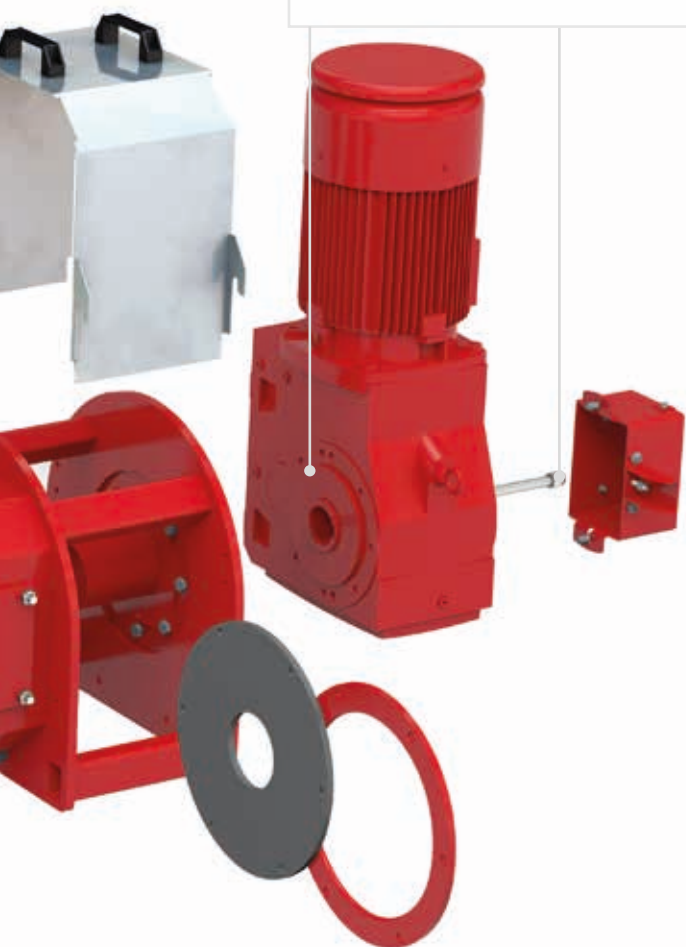


Very easy access to the sieve basket  
and press screw for quick service

High dry matter content  
of up to 40 percent possible

No extra shaft seal required thanks to the innovative drive arrangement behind the solid matter outlet

Individually adjustable pressing area for needs-based dry matter content



Reliable plug formation



The easily accessible maintenance port provides very easy access to the press screw and sieve basket at any time.

## SPECIFICATIONS

<b>Throughput</b>	Up to 50 m <sup>3</sup> /h
<b>DM content</b>	Up to 40 %
<b>Speed</b>	15 - 36 U/min
<b>Drive power</b>	4 - 7.5 kW
<b>Dimensions</b> LxBxH in mm	1,450 x 550 x 950

### Advantages of the XSplit®

- The dry matter content can be easily adjusted individually
- Reliable plug formation without the addition of auxiliary agents
- No extra shaft seal required
- Easy to maintain and low-maintenance
- Very good cost-benefit ratio
- Up to 40 percent dry matter content

# VarioAdjust

## Hydraulic precision at the touch of a button

### Maximum control and wear resistance

With VarioAdjust, you get an innovative, hydraulic closure unit that gives you full control over the solids outlet, the dry matter content and the throughput line. At the heart of the system is a robust closure cone that precisely builds up the solids plug and controls its size. Adjustment is child's play using a hydraulic pump, while a pressure gauge allows you to precisely control the pressure at all times, which is then kept constant by the VarioAdjust, regardless of the amount of solids. You benefit from a consistently optimal process flow. VarioAdjust was developed from wear-resistant steel to withstand even the toughest requirements. For particularly abrasive media and applications in agriculture and biogas, it offers a very long service life and absolute reliability.

### Easy and flexible to adjust

One of the biggest advantages of the VarioAdjust is its flexibility. While conventional systems require tools and manual adjustments, the VarioAdjust allows you to variably adjust the pressing pressure directly during operation without any additional effort. This allows you to react quickly and flexibly away from the separator to changing requirements and media - without unnecessary interruptions or complex settings.

### Who is VarioAdjust ideal for?

VarioAdjust is the perfect solution for anyone who processes a high proportion of solids, wants maximum durability and at the same time wants to benefit from convenient adjustment and adaptation of the separator during operation. The VarioAdjust offers invaluable added value, particularly in demanding areas and applications such as biogas plants, in interplant use or with abrasive media.



VarioAdjust hydraulic adjustment: The hydraulic pressure in the adjustment is adjusted by means of a hand pump, whereby the contact pressure adapts to the medium.

## SPECIFICATIONS

DM content	Up to 40 %
Max. pressure	25 bar
Adjustment	continuously

### The advantages at a glance:

- **Variable adjustment:** Hydraulic pressure can be flexibly and conveniently adjusted during operation
- **Durability:** Made of wear-resistant steel for a long service life
- **Automatic operation:** The system adjusts automatically depending on the amount of solids and thus keeps the process stable
- **Tool-free adjustment:** No tools required to regulate the dry matter content of the solids
- **Constant back pressure:** Fluctuations are automatically compensated for thanks to the nitrogen bubble

# XSplit Compact

**Compact system solution for your own business**

The new XSplit Compact expands Vogelsang's proven separation portfolio with a compact solution for self-mechanized operation. Specially configured for medium-sized and small operations, the XSplit Compact offers the familiar advantages of the XSplit system in a smaller design.

At the heart of the system is the XSplit press screw separator, which is mounted together with an R-pump on a sturdy stand. The integrated pressure control ensures simple and precise operation, so that the interaction of the components is perfectly coordinated. Thanks to its low weight and compact size, the XSplit Compact can be positioned flexibly at different locations and can be stowed away to save space when required. The stand also has integrated tine holders, which further simplifies transportation and storage.

The XSplit Compact is the perfect combination of separation, pump technology and control for in-house use and offers an efficient solution for smaller farms that want to optimize their liquid manure or digestate processing.

## TECHNISCHE DATEN

Throughput	10 m³/h
Discharge height	1.5 m
Weight	875 kg
Drive power XSplit	4 kW
Drive power pump	4 kW

### Advantages of the XSplit Compact

- Up to 40 percent dry matter content
- Perfectly matched components
- Offers all the advantages of the XSplit, such as ease of servicing
- Pressure-controlled control element for smooth operation
- Easy transportation thanks to tine holders
- Compact design that minimizes space requirements during operation and storage



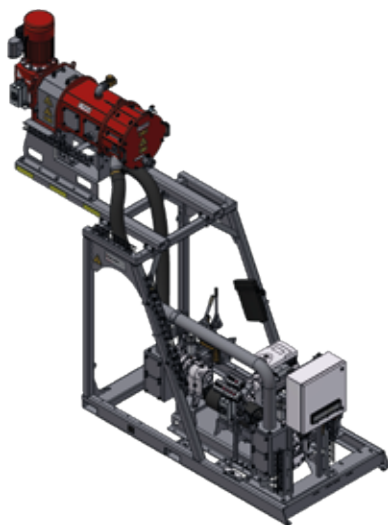


# Your separator of choice

## Individual equipment options for maximum efficiency

The XSplit press screw separator offers a wide range of equipment options to meet your requirements. Choose between different substructures for optimum adaptation to your needs.

Three control options - Basic, Pro and Expert - offer the right solution for every operation. Discover the versatile options for your XSplit separator!



### Stud frame

- Separate to a height of 1.80 m, extendable to 2.80 m or 3.80 m
- All components in one compact unit



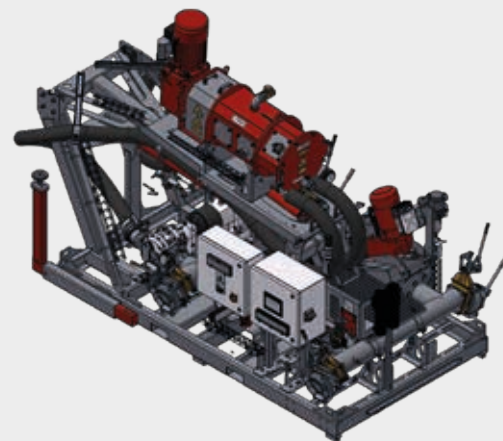
### Basic lift frame

- Discharge height of 2.80 m
- Hydraulic height adjustment
- Easy maintenance and cleaning of the XSplit
- All components in one compact unit
- Tine holders for easy transportation
- Professional control unit built into the unit



### Lift frame Pro on chassis

- Separation height of 3.60 m
- Mobile use for more flexibility
- Easy cleaning and maintenance of the XSplit

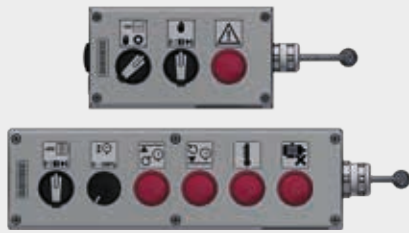


### Lift frame Pro

- Separation height of 3.00 m
- Efficient work processes thanks to quick adaptability
- Easy maintenance and cleaning of the XSplit
- All components in one compact unit
- Expert control unit built into the unit

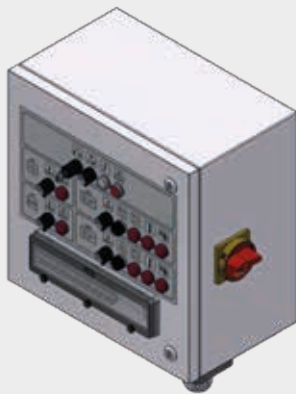


# Control variants



## Basic controls

- Easy-to-understand controls for everyday operation
- Main switch with emergency stop function
- Maintenance connections for the individual components



## Professional control unit

- Integrated control unit
- Manual and automatic operation
- Control of XSplit separator, pump(s) and RotaCut shredder
- Stainless steel housing



## Expert control unit

- 7" touch display
- Integrated energy distribution
- Manual and automatic operation

# Efficient separation through customized solutions

Economically successful separation not only depends on a wide selection of substructures and optimally adapted control systems, but also on the right additional components such as pumps and shredders.

Vogelsang has extensive expertise in this area: We support you in determining the ideal components and designs for pumping and processing farm manure and digestate - perfectly tailored to your specific requirements.

## Customize the separator to to your needs:

- VarioAdjust hydraulic adjustment for flexible adjustment of the TS content from the floor
- Screen baskets available in 0.5 mm, 1 mm and 2 mm sizes (2 mm in the unique, advantageous modular screen basket design)
- HeavyDuty SetUp for particularly intensive use
- Overflow for further use of existing pumps





### Rotary lobe pump

The rotary lobe pump from the VX and IQ series is the ideal solution for the feed and discharge process. As true powerhouses, they combine durability, efficiency and easy maintenance to handle even the most demanding tasks with ease. With their robust design and innovative injection system, they offer reliable protection against foreign bodies. Thanks to the HiFlo pistons, the pumps work pulsation-free, which ensures quiet operation. Thanks to the additional QuickService system, the pumps can be serviced quickly and easily on site.



### RotaCut cutter

The RotaCut wet shredder effectively protects systems from coarse foreign bodies. With high cutting performance, it shreds fibrous materials in liquid media, while the housing design separates foreign bodies. Customizable cutting screens and various designs allow flexible applications. The Automatic Cut Control (ACC) ensures constant contact pressure and cutting performance. Maintenance work can be carried out quickly thanks to the QuickService system. Robust construction and maximum efficiency make the RotaCut indispensable for protecting pump technology.



### Progressing cavity pump

The HiCone and CavityComfort progressive cavity pumps reliably pump low-viscosity to high-viscosity media thanks to their positive displacement principle. The innovative service concept allows quick access to the rotor and stator, which significantly reduces maintenance times. Conveying elements are easy to replace and the swivel mechanism facilitates access without dismantling the piping. The tried-and-tested cartridge seal also means that seals can be replaced quickly. The flow-optimized suction housing minimizes blockages and ensures high efficiency. Robustly constructed, they offer a long service life and reliable operation.



## 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
- Spreading technology
- Supply and disposal systems for railway, busses and boats
- Wet grinders and solids reduction as well as separation technology

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