

### PRECISION DISTRIBUTION TECHNOLOGY

Vogelsang precision distributors for accurate slurry spreading

**VOGELSANG - LEADING IN TECHNOLOGY** 







### You can rely on it

Quality, experience and expertise guarantee future-proof technology

As a pioneer in agricultural technology, Vogelsang remains one of the leading mechanical engineering companies in this sector. Farmers and contractors worldwide rely on the innovative design and high quality standards of our spreading technology.

Based on our diverse experience and continuous development work, we build highly functional components and entire systems that facilitate reliable and efficient distribution of the nutrients.

Both the production and material quality of our precision distributors and optional equipment are testimony to our responsible actions for the benefit of our customers. Their adaptability and versatility boost yields in addition to fostering sustainability, and allow agricultural operations to react effectively to current circumstances or legal requirements.

# The heart of all spreading systems

Precision distributors for efficient work

### Slurry - a valuable material

Slurry and digestates are reusable materials. They are a natural source of plant nutrients that can be precisely spread onto the soil, meaning the need for inorganic fertilizers is greatly reduced. This technology for targeted and precise spreading of slurry on arable land or growing crops is not only state of the art, it also prevents the loss of nutrients and is better for the environment than splash spreading systems.

### **Highest precision**

The main requirement for the optimal use of slurry is even spreading. Vogelsang precision distributors cut and distribute slurry with extreme precision and an excellent variation coefficient of less than 5 percent. This makes the spreading process reliable and safe.

### Compatible and universal

The versatile Vogelsang precision distributors can be used in all types of spreading systems, including dribble bar and trailing shoe systems, injection systems, cultivators and short disk harrows.

### Overview of Vogelsang distribution technology

### **Precision distributors**



### **DosiMat DMX**

- High precision
- Flexible spreading capacity
- Constant high distribution precision irrespective of the flow rate
- Easy to maintain



### **ExaCut ECL**

- Self-sharpening cutting blades
- Best selling distributor worldwide
- Very smooth running
- Heavy material separator



### **ExaCut ECQ**

- Fast and uncomplicated maintenance
- Longer service life
- Maximum distribution precision due to flow optimization
- Low power requirements
- Large cross-sections for less pressure loss
- Resistant to dry running



### **ExaCut ECC**

- Innovative rotor concept without air suction
- Excellent distribution accuracy
- Tried-and-tested cutting principle
- Proven RotaCut shredding technology



### **ExaCut ECM**

- 30 percent space and weight saving due to compact housing
- Enormous cutting power due to innovative rotor concept
- Universal for all applications
- No air suction required

### Ergänzende Ausstattungstechnik



### SynCult

- Complete set for equipping soil cultivation units for efficient slurry spreading
- Quick-and-easy installation



### **Comfort Flow Control**

- System for deactivating individually defined hose groups
- Suitable for part-width section cut-offs and tramline switching

# Flexible and precise spreading capacity

### The DosiMat DMX precision distributor

With spreading technology, users not only have to consider the economic efficiency of a machine, but are now also confronted with the stricter legal requirements of the German fertilizer regulations. The new design of the DosiMat DMX precision distributor allows both. There is also a flow-optimized rotor, which provides outstanding distribution precision. Irrespective of whether the DosiMat DMX is distributing small or large spreading capacities, the precision distributor can be used flexibly without reconstruction measures, and shreds and distributes the slurry precisely at all times. The DosiMat DMX's easy-to-service design proves just as practical. There are fewer hex-head screw plugs, the housing can be opened quickly and the rotor is easier to access.







### Permission to pump up the volume

### Perfectly built for more flexibility at a steady performance

### Advantages of the DosiMat DMX

### Plastic housing cover

- Dimensionally stable and slightly curved for more air volume and improved distribution precision
- Reduces the weight of the DosiMat DMX by up to 15 kg

### Ventilation

- Automatic regulation of the airflow thanks to a patented membrane
- Ensures uniform flow of the slurry into the discharge hoses

### Bar or star rotors

- Processing of various spreading capacities without reconstruction measures
- Higher maximum spreading capacity compared with similar models
- Constant high distribution precision irrespective of the flow rate

### **Cutting blade**

 Reliable shredding and homogenization of the slurry thanks to optimized cutting contours

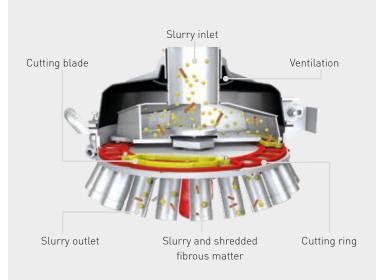
### Sealing package

- Prevents mixing of hydraulic oil and the medium
- Simple identification of leaks via leakage checks

### Ease of service

• Easy-to-service design for simple maintenance of all relevant elements





### **SPECIFICATIONS**

Number of outlets	8 - 60
Hose diameter	DN 40 DN 50 DN 60

# Compact housing with maximum distribution accuracy

### ExaCut for optimum cutting results with maximum reliability

The ExaCut is the compact precision distributor by Vogelsang. Four different models of this distributor are available:

The **ExaCut ECL** distributes the slurry centrically with the rotor technology. The high speed of the rotor distributes the slurry to the individual outlets. ExaCut ECL optimizes variety and a flexible range of applications.

The **ExaCut ECQ**, a further development of the ECL, also works using rotor technology. It also has new features that put it in the top spot in the market: Unbeatable distribution accuracy and maintainability accompanied by an increase in service life and lower power requirements.

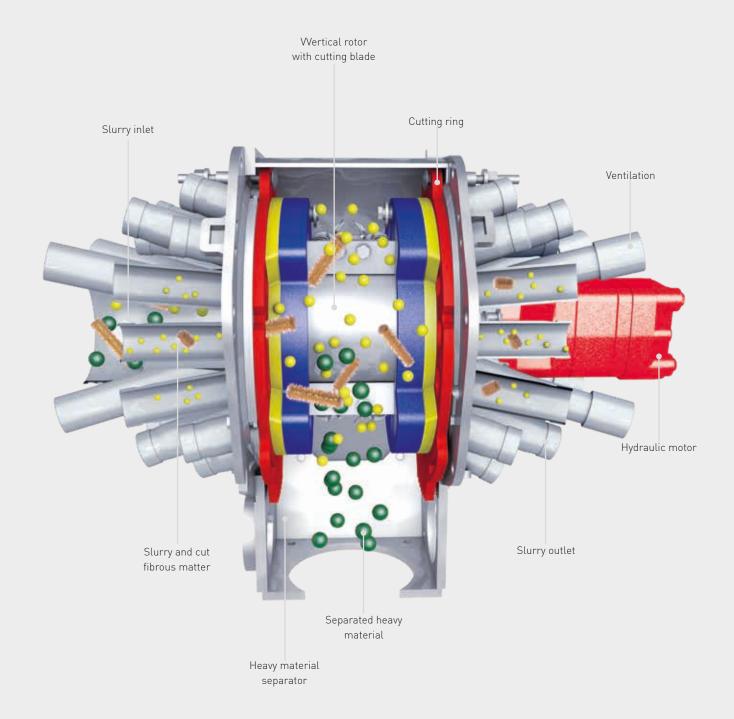
The **ExaCut ECC** is based on an innovative rotor concept that reaches an absolutely high distribution accuracy without air suction.

The **ExaCut ECM** is as accurate as ever, but more compact than ever. The distributor's compact housing saves up to 30 percent in space and weight. Thanks to the innovative rotor concept, it has cutting power without the need for air suction.





### Innenansicht ExaCut ECL



### Compact and reliable

### The ExaCut ECL for efficient cutting and distribution

### Distribution technology with rotors

The Vogelsang ExaCut ECL, equipped with a vertical rotor with cutting blades, cuts and distributes precisely in a single process. Thanks to the compact design, this precision distributor can be used as a central or decentralized distributor in the booms of the spreading system. That means working widths of up to 36 meters and systems with up to 120 outlets are now possible. Also, all ExaCut ECL units are equipped with a heavy material separator, to make removing stones or metal parts easy.

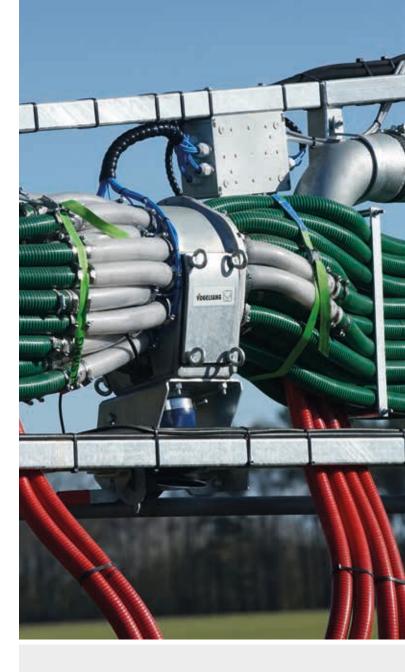
### Inlet adapter

Many variants are available for the slurry inlet on the ExaCut ECL. This allows the ExaCut to be customized to the spreading machine.

### **ExaCut ECL-Variety**

ExaCut ECL is available in numerous configurations:

- 14 models with 18 to 48 outlets
- Hose diameters from DN 40 to DN 60, depending on the model
- Cutting rings and rotors are configured according to the application



### Advantages of the ExaCut ECL

- Self-sharpening cutting blades
- Compact housing
- Very smooth running
- Heavy material separator
- Wide variety flexible use
- Special sealing package protects the hydraulic circuit against the slurry

### **SPECIFICATIONS**

Number of outlets	18 20 24 30 40 48
Hose diameter	DN 40 DN 50 DN 60

### **PERFECTLY**

The

### Self-sharpening cutting unit

Consistent level of sharpness over the entire life cycle due to easy change of direction

### Two-piece cutting elements

Minimal material usage thanks to modular design for maximum cost- effectiveness

### Ventilation

Performance-oriented air outlet for high distribution accuracy





### Accurate distribution\*

Optimal distribution accuracy for even supply of nutrient

\*(according to DLG test criteria)

### Maximum flexibility

Universal application customization: Adjustment of the throughput volume, outlet numbers, hose diameter and inlet variants

### **COORDINATED CUTTING UNIT**

core piece of the ExaCut

### Eccentric adjuster

Optimum contact pressure for efficient & uniform cutting performance over the entire cutting path

### Coordinated geometry of cutting ring and knife

Proven scissor effect: Perfected cutting angles for maximum cutting performance

### **Combination of** material pairing

Matched degrees of hardness for cutting ring and knife provide durability

### Premium brand manufacturer

for drive technology



### ProtectionPack

Special sealing package to protect the hydraulic circuit and provide maximum operational safety

### Rotor technology

for smooth running

### Heavy material separator

Separation of foreign matter to protect the entire application unit

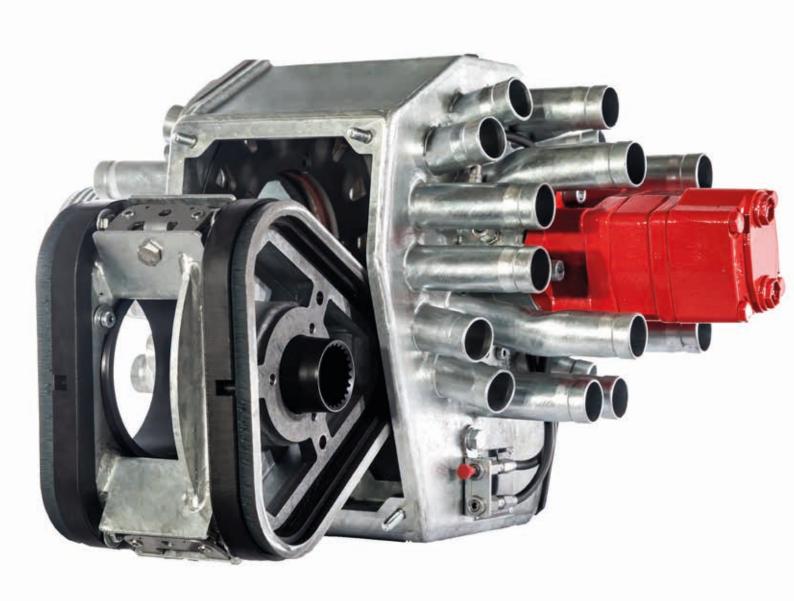
### Service friendly

Easy change of parts within a short time and without disassembling

Compact housing with low weight

### More staying power, less work

Expect the best: The ExaCut ECQ distributor from Vogelsang



50 % less power requirement and 3 times longer service life of up to 150,000m<sup>3</sup>. The completely revised design shortens the time required for maintenance work. Thanks to the completely new service concept of the ExaCut ECQ, wearing parts are easier to access - even the eccentric adjuster can be clamped without any assembly work.

### Maintenance is faster, easier and less complicated than ever before!

As with all Vogelsang machines, the design of the distributor pays considerable attention to ensuring the easiest possible maintenance. The quick service principle of the ExaCut ECQ impresses with a large maintenance flap. It enables direct access to all relevant internal parts. Hoses do not have to be dismantled for maintenance work - not even to tighten the eccentric adjuster.

### Three times longer service life

The optimized ExaCut rotor technology with tri-lobe design reduces the speed and the internal pressure in the distributor, reducing the strain on the cutting blades. This has extended the service life of the cutting elements by three times, while simultaneously improving cutting performance and average distribution.

### The nutrients are distributed even more precisely

Flow simulations and tests led to a modification of the rotor and housing. Larger cross-sections and flow guide plates calm the flow and ensure unprecedented distribution precision.

### Power requirements reduced by up to 50 %

The rotor design and reduced speeds naturally use less energy and oil. A smaller contact surface results in less friction resistance and reduces the hydraulic pressure. The design also has a positive impact on the pump's power consumption. The more open design with larger crosssections creates an easier slurry inflow and thus prevents unnecessary pressure loss.

### Advantages of the ExaCut ECQ

### Faster, easier and less complicated maintenance than ever before!

Vogelsang's well-known QuickService principle:

- Easy maintenance of the distributor thanks to removal of the cutting blade and rotor unit through the generously dimensioned maintenance port
- No need to dismount the precision distributor or the cover
- Eccentric adjuster clamping without disassembly or special tools

### Nutrients are distributed even more precisely

Better distribution precision due to flow optimization:

- Rotor and housing optimized based on simulation and tests
- Flow guide plates for better distribution precision
- Flow calming due to generous cross-sections

### Three times longer service life of cutting elements

Optimierte ExaCut-Rotortechnik:

- Tri-lobe rotor design allows reduced speed with the same cutting performance and spreading swath
- Longer cutter service life
- Reduced effect of the internal distributor pressure on blade wear: 50% less force due to internal pressure

### Resistant to dry running

- Low frictional heat-up even with dry running
- Very little wear

### Only 35 l/min oil flow rate

New technology saves fuel and oil:

- Lower speeds result in reduced oil requirement without impairing cutting performance
- Reduced areas exposed to internal pressure reduce frictional resistance and thus hydraulic pressure

### Large cross-sections for less pressure loss

Open design improves pump performance:

- Wider inlets and orifice diameters reduce pressure loss
- The pressure at the feeder pump drops
- Power consumption and wear on the pump are reduced

### **SPECIFICATIONS**

Number of outlets	24 30 36 42 48
Hose diameter	DN 40   DN 50
Side inlet diameter	DN 100 DN 125 DN 150
Inlet positioning	Sideltop

## The ExaCut ECQ precision distributor

Exactly what a precision distributor should look like

### Number 1 for maintenance

Simple and completed in an unparalleled time of up to 20 minutes, without disassembly of the precision distributor

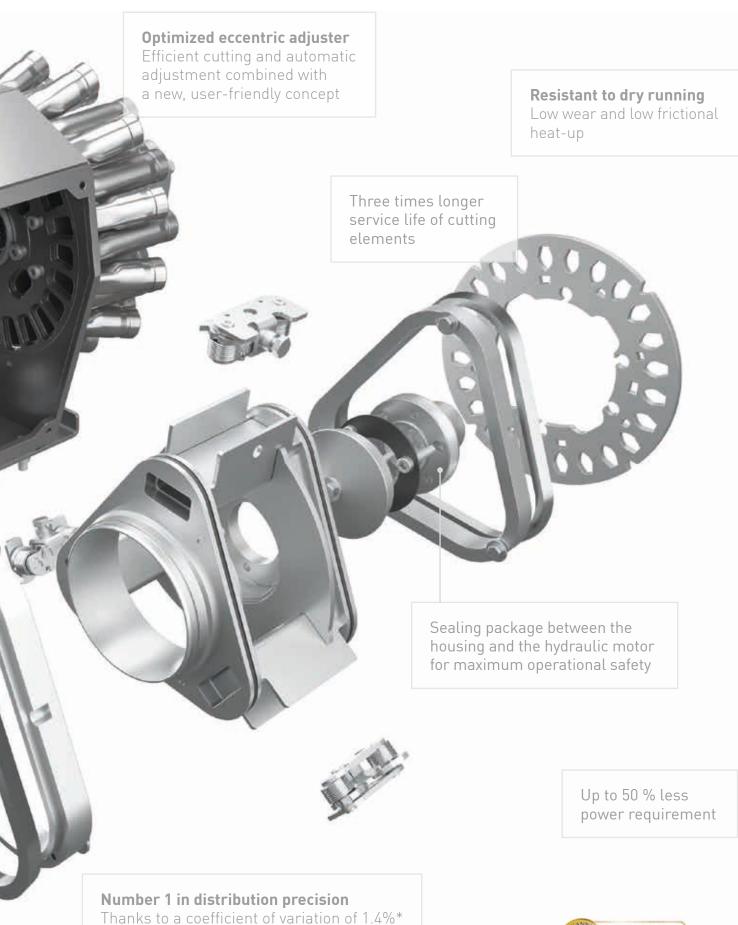
### **Self-sharpening cutter**

Rotation direction changes maintain a constant degree of sharpness over the entire lifetime

### Generous cross sections for maximum effectiveness

Reduced pressure losses, reduced power consumption for the components in the slurry system, spreading capacity increased (by almost 30 %)





\* DLG test report 7030

WOGELSAMO, 15 M BLACKBRID
MIT EXACUT ECQ

Flunktion und Arbeitoqualität

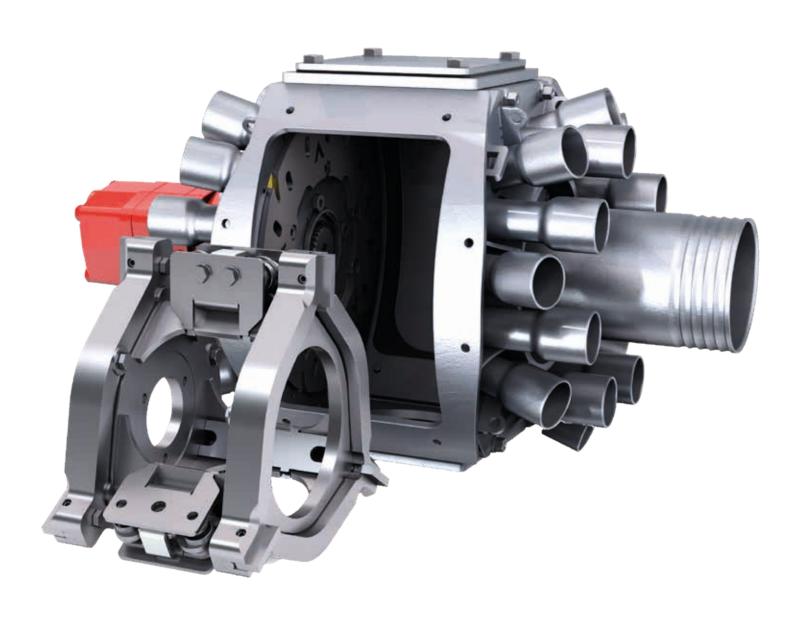
Flunktionung, Sediemung

UNG Philippenhich 2010

UNG Philippenhich 2010

### Runs easily without air

The powerful ExaCut ECC precision distributor with innovative rotor technology



Until recently, all precision distributors on the market were equipped with ventilation hoses and air suction to guarantee even flow of the slurry into the discharge lines.

Vogelsang has now succeeded in becoming the first agricultural technology developer in the world to design a precision distributor that does not require air suction. The ExaCut ECC has an innovative rotor concept, which prevents the formation of negative pressure. Extremely even feeding of the slurry into the hose outlets ensures an even smoother distribution process. Generous cross sections contribute to the superior smooth running of the ExaCut ECC. The fact that these improvements actually serve to reduce power and oil requirements is certainly a welcome side effect.

Of course, Vogelsang quality features, such as selfsharpening cutting blades and the especially high cutting force, are retained, as is the tried-and-tested quick service principle. The rotor can be serviced in just 20 minutes without releasing a single hose.

### Equipment and options:

- Several variants are available for the slurry inlet (diameter: 100 mm, 125 mm, 150 mm)
- Partial width management with Comfort Flow Control
- TopInlet: additional slurry inlet at the top of the distributor for central positioning of the spreading equipment
- Individual configuration options for cutting rings and blades
- Speed sensor
- User-friendly heavy material separator

### **SPECIFICATIONS**

Number of outlets	30   40   48
Hose diameter	DN 40   DN 50
Inlet diameter	DN 100 DN 125 DN 150



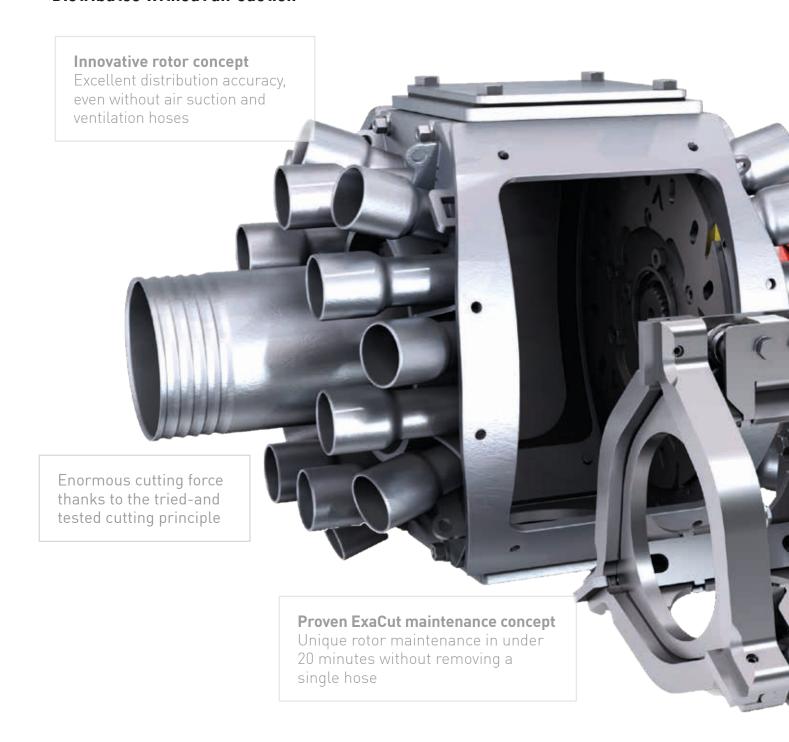


### Advantages of the ExaCut ECC

- Innovative rotor concept without air suction
- Excellent distribution accuracy
- Tried-and-tested cutting principle
- QuickService maintenance concept: easy and quick

### The precision distributor ExaCut ECC

### Distributes without air suction



Very smooth distribution without pulsation of the hoses

### Generous cross sections up to DN 150 for maximum effectiveness

Reduced pressure losses and power consumption of the components in the slurry system

Continuous, optimal degree of sharpness ensured by reversing direction

**Lower drive power** 35 l oil per minute



Developed for use on slot machines, however applications extend beyond grassland

Sealing package between the housing and hydraulic motor for maximum operational reliability

User-friendly eccentric activation due to central clamping screw

### Precise as always compact like never

The ExaCut ECM precision distributor without air suction



ExaCut ECM

Similar to its big brother, the ExaCut ECC, the ECM does not require air intake. However, there has never been a distributor as compact as the ExaCut ECM. This enables a cutting principle similar to the one of the RotaCut. A rotor design that never completely closes individual holes in the cutting screen results in a smooth, pulsation-free flow of media.

We have succeeded in developing a precise distributor that has optimum cutting lines and is also 30 % lighter and more compact with the same inlet and outlet size. The proven reversal of the direction of rotation ensures that the knives remain sharp at all times. In addition, the ECM has an exceptionally low drive power requirement of only 20 l/min oil flow.

The trend towards larger barrel diameters with the same transport dimensions is forcing manufacturers of slurry attachments to optimise the installation space as much as possible. The ExaCut ECM's compact dimensions minimise the space required for the distributor and the design of the hose package.

Whether it is a sophisticated slurry injector folded into the transport position or a professional 30 m trailing shoe, the ECM delivers powerful, precise distribution in a minimum of space.



### Advantages of the ExaCut ECM

- 30 % space and weight savings due to compact housing
- Enormous cutting power due to innovative rotor concept
- Universal for all applications
- No air suction required
- Only 20 l oil quantity required

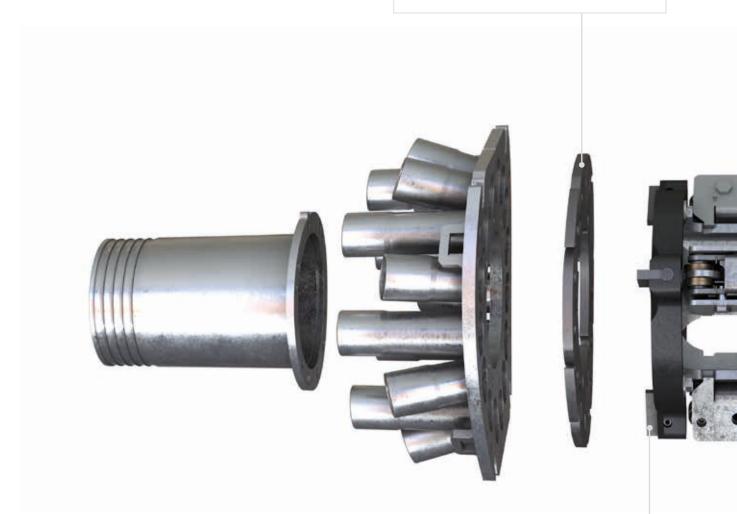
### **SPECIFICATIONS**

Number of outlets	18 24 30 36
Hose diameter	DN 40 DN 50
Inlet-Ø lateral (top)	DN 100 DN 125  (DN 150)

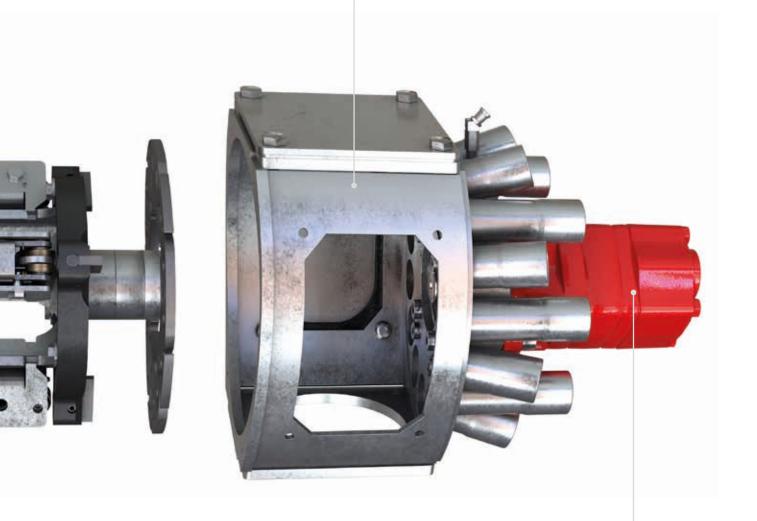
## The precision distribuor ExaCut ECM

The compact ExaCut ECM precision distributor for precise distribution in a small space

Conical shape of the sieve holes prevents clogging and increases the cutting performance



Compact knives never cover the cutting sieves completely, which achieves an optimal distribution Compact housing for a wide range of applications and maximum flexibility



Only 20 l/min oil volume flow

# Direct slurry incorporation for efficient nurient use

The SynCult retrofitting set for tillage equipment

Incorporating slurry and digestates directly into the soil using tillage equipment saves you time and money and reduces the number of crossings. Direct slurry incorporation prevents nutrient losses. Our SynCult is an upgrade kit consisting of an adapter frame, a slurry precision distributor, discharge hoses and appropriate brackets. The fastening points for the precision distributor and the slurry outlet are predetermined, guaranteeing good work results and a long lifetime. As the SynCult was developed in partnership with tillage equipment manufacturers, the guarantee on the tillage equipment remains fully valid even after installation of the SynCult.

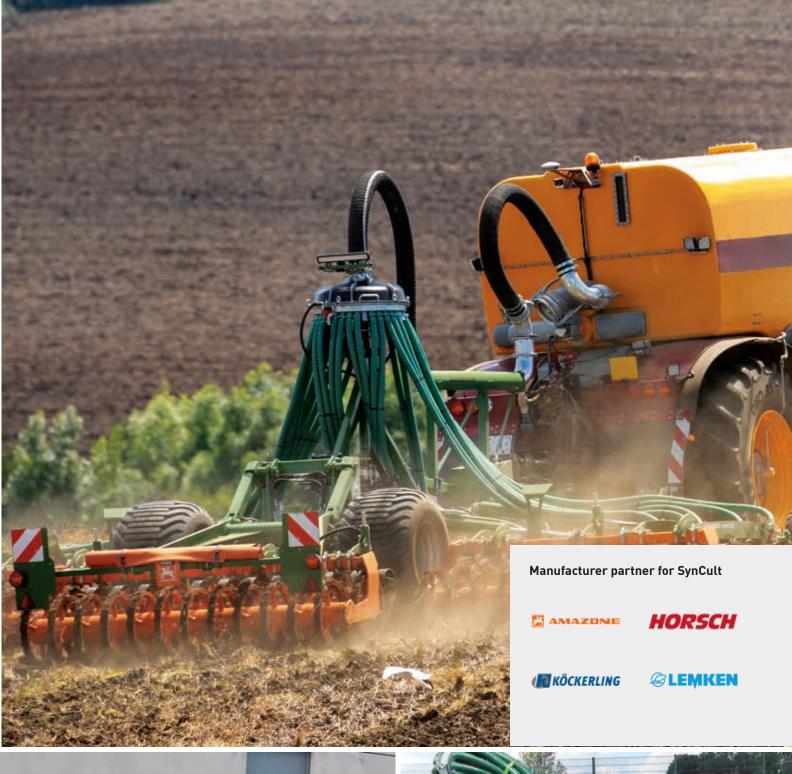
Current manufacturing partners for SynCult are Amazone, Horsch, Köckerling and Lemken.

### Advantages of the SynCult

- Direct incorporation of slurry for optimum use of nutrients
- Hassle-free compliance with training periods
- Combines several work steps in one to save on time and costs
- Ingenious upgrade concept, including assembly instructions
- Quick and easy installation
- Full guarantee on the tillage unit

### **Equipment and options**

- Working widths of 4 12 meters [\*depending on the manufacturer]
- DosiMat DMX precision distributor for working widths of up to 7 meters, ExaCut precision distributor for working widths of 8 meters and above
- The distributor is fasted to the tillage unit using a specially designed, hot-dip galvanized adapter
- Hose diameter DN 50



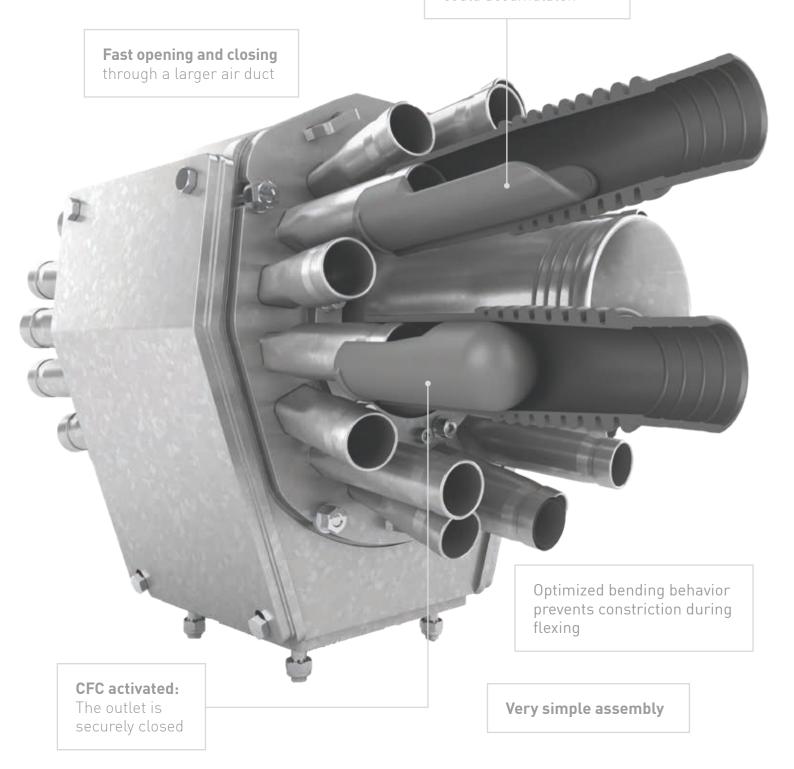






### **CFC** deactivated:

Free flow without edges on which fibrous matter could accumulaten



# Greater convenience, more options

### Comfort Flow Control for optimal flow control and use of specific hose groups

### **Comfort Flow Control (CFC)**

To spread slurry individually via specific sections of a dribble bar linkage, an easy-to-operate flow control system is required. The Vogelsang Comfort Flow Control (CFC) offers a surprisingly simple solution for part-width section cut-offs, tramline switching or switching off selected hose groups on the spreading system.

### Practical, flexible and precise

The way the patented CFC works is uniquely simple and clever: It primarily consists of a type of balloon and small compressed-air line. It is correspondingly economical and robust. CFC is installed in the hose outlets of the spreader device immediately downstream of the respective distributor. Then each individual hose or the individual hose groups can be activated and deactivated electropneumatically from the cab at the touch of a button.



### Switching off the tramline



### Advantages of the Comfort Flow Control

- Easy to install
- Quick operation by pressing a button in the cab
- Reliable hose switch-off for partial width sections, tramlines, switch-off of individual groups
- Hose switch-off customized to individual requirements
- Economical spreading for all field shapes
- Can be retrofitted to any system

### Efficient and effective spreading technology from Vogelsang

Both the treatment of slurry and spreading technology makes the precision distributor ideal for successful cultivation. Vogelsang offers intelligently designed dribble bar systems with different working widths for every type of vehicle, in order to distribute valuable slurry in an economic and environmentally friendly way. The dribble bar and trailing shoe system both meet the current stricter fertilizer regulations for close to the soil, strip spreading of organic fertilizer. Depending on the area of application and soil characteristics, the use of an XTill from Vogelsang is recommended. Work processes such as plowing, tilling or seed bed conditioning can easily be combined with slurry incorporation, in particular for row crops.

### Dribble bar systems for tankers



### SwingUp

• Working widths from 7.5 to 18 m



### SwingMax

• Working widths from 21 to 30 m



### SwingMax36

• Working width 36 m

### Dribble bar and trailing shoe systems for tankers



### UniSpread

• Working widths from 6 to 10.5 m

### Trailing shoe systems for tankers



### SwingMax Slide

• Working widths from 21 to 30 m

### Dribble bar systems for self-propelled vehicles



### Compax

• Working widths from 12 to 18 m

### Strip tillage technology



### XTill® VarioCrop

• Variable adjustable for all row crops



3

### Dribble bar systems for the umbilical application system



### BackPac

 $\bullet~$  Working widths from 21 to 32 m  $\,$ 



### **UniSpread Hosing**

 $\bullet~$  Working widths from 6 to 10.5 m  $\,$ 

# When it comes to service, we leave nothing to chance

### Comprehensive services for smooth operation and a long lifetime

### Support and supply from A to Z

Because we are aware that close customer proximity is essential for our mutual success, we design our services to best meet your needs. In Germany and in countries where we have subsidiaries, Vogelsang service centers and contractual partners generate an active dialog with our customers and provide reliable support.

This means you always get the precise support you need in every phase of our partnership. Our highly qualified staff make it possible – experts such as consultants and technicians who know your Vogelsang machines inside and out.





### 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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Precision distribution technology\_EN-INT\_06207725\_MET0000234 - Printed in Germany

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