



# ENVIRONMENTALLY FRIENDLY LIQUID MANURE MANAGEMENT

VOGELSANG – LEADING IN TECHNOLOGY

**VOGELSANG**











# Modern and efficient spreading technology

## Today's spreading systems for tomorrow

- Professional system solutions for every application
- Distribute with the best – the ExaCut precision distributor: Unbeatable distribution accuracy, maximum cutting force and QuickService in less than 20 min. (ECQ and ECC)
- Centrally positioned precision distributors and optimal hose routing ensure that when spreading starts, only a few seconds pass before the liquid manure is discharged at each outlet (DLG test 7030 - BlackBird 15 m, 2 sec.)
- Partial width management: Adapts to your requirements!
  - Half-side shut-off by means of gate valve
  - Comfort Flow Control (CFC): Shut-off of individual hoses or groups of hoses as required and suitable for SectionControl
- Special hose with longer-lasting durability, elasticity and UV resistance, thanks to a unique manufacturing process
- Flexible ground hugging: Different system solutions for optimal following of the ground contour
- Durable and long-lasting load-bearing structures thanks to ideal use of materials, enabled by to state-of-the-art simulation technology
- Compact transport dimensions: Minimal transport widths, yet optimal working widths of up to 36 m
- EasyPack: Many Vogelsang systems are also available as pre-assembled units for easy self installation



# BlackBird® Single trailing shoe linkage

## Perfection in a compact space

Slim, light, unique in 7.5 to 12 m working width

### Advantages:

- ExaCut ECL or ExaCut ECQ precision distributor for optimum distribution
- Suitable dimensions for smaller structures thanks to compact transport widths
- 3D collision protection protects the system in all working positions
- Integrated safety catch for easy tanker attachment
- Low weight combined with high wear resistance thanks to innovative skids made of special plastic

### EQUIPMENT AND OPTIONS:

- Single, centrally mounted precision distributor
- Optional choice between ExaCut ECL and ECQ
- Reduction of the hose spacing to 12.5cm with the Double Flow option
- NightShift LED lighting for optimum visibility even at night
- Hydraulic block with manual operation
- DropStop by folding up the linkage for less soiling on headlands, roads and farm tracks

### SPECIFICATIONS

Max. throughput capacity: up to 7,000 l/min (depending on pressure and flow rate as well as DS content)  
Transport width up to tank diameter 2 m: < 2.55 m

Working width in m	Foldable to in m	Number of precision distributors	Shoe distance in cm	Weight (basic version) in kg
7.5	2.55	1	25	870
9	2.55	1	25	930
10.5	2.55	1	25	990
12	2.55	1	25	1,050





# BlackBird® Light trailing shoe linkage

## Easy fit on any tank

BlackBird Light - the innovative and ultra-light trailing shoe

### Advantages:

- Minimum weight with maximum stability
- PrecisionFlow skid for minimal plant contamination
- Fits on every standard tanker
- 3D collision protection protects the system in all working positions
- Integrated safety catch for easy tanker attachment
- Ideally suited for retrofitting thanks to its low weight

### EQUIPMENT AND OPTIONS:

- Active pressure on all runners
- DropStop by folding up the linkage for less soiling on headlands, roads and farm tracks
- Flow-optimized skids for every application
- Optional DoubleFlow and NightShift
- Two ExaCut ECM precision distributors for precise distribution without air intake

### SPECIFICATIONS

Max. throughput capacity: up to 14,000 l/min (depending on pressure and flow rate as well as DS content)  
Transport width up to tank diameter 2.1 m: < 3 m

Working width in m	Foldable to in m	Number of precision distributors	Shoe distance in cm	Weight (basic version) in kg
12	2.99	2	25	1,325
15	2.99	2	25	1,400





# BlackBird® Pro trailing shoe linkage

## Made for professionals

Minimal nutrient losses due to precise liquid manure placement

### Advantages:

- Liquid manure spreading below the crop with up to 12 kg coulter pressure for optimal nutrient utilization
- Unique liquid manure placement thanks to flow-optimized outlet for minimal plant contamination
- Outstanding distribution accuracy thanks to perfectly coordinated components (DLG test report 7030)
- Liquid manure at all outlets within 2 seconds: virtually no start-up wedges (DLG test report 7030)
- Better penetration into the soil thanks to innovative runner shape for minimal nutrient loss and long service life
- Optimal ground adaptation thanks to integrated pendulum compensation
- Fits any existing tanker

### EQUIPMENTS AND OPTIONS:

- Direct attachment or 4-point design including mounting foot
- Safety gear integrated in the side arm
- Passive pendulum compensation in the center frame
- Partial width management: Gate valve or Comfort Flow Control
- Hydraulic control block for up to 6 functions:
  - Constant supply via pump connection P and tank connection T, optional Load Sensing LS
  - Manual operation (toggle switch control) or by means of ISOBUS control
- Automatic distributor shut-off upon actuation of the partial width gate valves
- LED lighting

### SPECIFICATIONS

Max. throughput: Up to 14,000 l/min (depending on pressure and flow rate, and the dry matter content)  
Transport width up to tank diameter 2.1 m: < 3 m

Working width in m	Foldable to in m	Number of precision distributors	Shoe distance in cm	Weight (basic version) in kg
12		2	25	1,475
15		2	25	1,550
18	15	2	25	1,980





# BlackBird® Max trailing shoe linkage

Maximum power Maximum flexibility

Unprecedented flexibility and ground adaptation

Advantages:

- Inimitable ground tracking thanks to innovative linkage concept for height and pendulum compensation
- Realizable working widths for the 30 m. Variant of 30 m, 27 m, 24 m and 21 m
- Liquid manure spreading below the crop with hydraulically controlled coulter pressure
- Unique liquid manure placement thanks to flow-optimized liquid manure outlet for minimal plant contamination
- Special skates shape for the best possible penetration into the ground and minimal nutrient losses
- Optimum distribution thanks to precision distributors from the ExaCut series

EQUIPMENTS AND OPTIONS:

- Direct attachment or 4-point version including mounting foot
- Arm extension for continuous ground adjustment
- Active pressure on all skates (controllable)
- Separate height and pendulum adjustment for each side arm
- Partial width management: Gate valve or Comfort Flow Control
- Automatic distributor shut-off upon actuation of the partial width gate valves
- LED lighting

SPECIFICATIONS

Max. throughput: 21 m and 24 m: up to 14,000 l/min  
30 m: up to 17,500 l/min (depending on pressure and flow rate, and the dry matter content)  
Transport width 21 und 24 m up to tank diameter 2.1 m: <3 m  
Transport width 30 m up to tank diameter 2.2 m: <3 m

Working width in m	Foldable to in m	Number of precision distributors	Shoe distance in cm	Weight (basic version) in kg
21	15	2	25	3,700
24	18	2	25	3,800
30	27   24   21	4	25	5,800





# SwingMax dribble bar linkage

## Maximum performance and flexibility

Maximum possible impact force  
and versatile dribble bar system

### Advantages:

- Maximum flexibility: Ideally coordinated folding and sliding mechanisms allow up to four different working widths to be set (without frame parts protruding). Additional hose groups can be switched off individually
- Maximum impact force due to largest possible working widths for soil protection and fewer tramlines
- Dimensionally stable end hoses divide the crop for minimal crop contamination and optimal liquid manure placement at equally-spaced intervals
- Slope compensation: Optimal adaptation to soil conditions

### EQUIPMENT AND OPTIONS:

- 4-point design incl. mounting foot
- Active slope compensation: Inclination angle of the linkage is controllable
- Partial width management: Gate valve or Comfort Flow Control
- TeleShift at rear/front to reduce the transport length
- End hoses in 50 DN for smooth discharge of the medium
- Central lubrication system
- LED lighting

### SPECIFICATIONS

Max. flow rate: from 12,400 up to 18,000 l/min (depending on pressure and flow rate as well as DS content)  
Transport width up to tank diameter 2.1 m: < 3 m  
Transport width for SwingMax 36 m:  
Ø 2.10 m: 3.4 m    Ø 2.20 m: 3.5 m

Working width in m	Foldable to in m	Number of precision distributors	Hose distance in cm	Weight (basic version) in kg
21	18   15	2	26.25	2,300
24	21   18	2	25   30	2,400
27	24   21	2	28.13	2,700
28	24.5   21	2	29.17	3,100
30	27   24	2	31.25	3,000
36	30   24	3	30	4,300





# SwingMax Slide trailing shoe linkage

Impact force, flexibility and precise liquid manure spreading

Spreading up a working width of 30 meters

**Advantages:**

- Powerful trailing shoe technology: Working widths up to 30 m
- Unbeatable value for money
- Maximum flexibility: Ideally coordinated folding and sliding mechanisms allow up to four different working widths to be set (without frame parts protruding). Additional hose groups can be switched off individually
- Precise placement of liquid manure in a narrow band below the crop thanks to dimensionally stable BaseRunner trailing shoes
- Slope compensation: Optimal adaptation to soil conditions

**EQUIPMENT AND OPTIONS:**

- 4-point design including mounting foot
- Active slope compensation: Inclination angle of the linkage is controllable
- Partial width management: Gate valve or Comfort Flow Control
- TeleShift at rear/front to reduce the transport length
- Central lubrication system
- LED lighting

**SPECIFICATIONS**

Max. flow rate: from 12,400 up to 14,000 l/min (depending on pressure and flow rate as well as DS content)  
Transport width up to tank diameter 2.1 m: <3 m

Working width in m	Foldable to in m	Number of precision distributors	Shoe distance in cm	Weight (basic version) in kg
21	18   15	2	26.25	2,400
24	21   18	2	25   30	2,500
27	24   21	2	28.13	2,800
28	24.5   21	2	29.17	3,200
30	27   24	2	31.25	3,100





# UniSpread universal linkage

The linkage for small working widths  
and more options

The economical entry solution

**Advantages:**

- Suitable for universal retrofitting on any tanker thanks to fixed mounting or 3/4 point mounting
- More flexibility: choice between dribble bars or trailing shoes as spreading element
- Easy installation: Plug & Play installation
- Lightweight linkage with sophisticated slim design for maximum payload
- Highly precise and reliable ExaCut precision distributors
- Durable, UV-resistant hose material for long service life
- Safe transport with a width of less than 3 m

**EQUIPMENT AND OPTIONS:**

- Choice of ExaCut ECL or ExaCut ECQ precision distributor
- Standard holding and security device
- Ball valves for partial width control
- Automatic end arm folding (for 9 m and 10.5 m)
- Optional hydraulic sequence control
- Optional splash plate with gate valves and T-piece

**SPECIFICATIONS**

Max. flow rate: from 5,200 up to 7,800 l/min (depending on pressure and flow rate as well as DS content)

Working width in m	Number of precision distributors	Hose distance in cm	Transport width in m	Weight (hose) in kg	Weight (shoe) in kg
6	1	25	2.5	560	600
7.5	1	25	2.5	660	710
9	1	25	3.0	730	790
9*	1	25	2.5	770	810
10.5*	1	25	2.5	810	900

\* Automatic end arm folding (optional for 9 m).





# UniSpread Hosing System

## Hosing with UniSpread

The solution for minimum weight and maximum possibilities

### Advantages:

- Minimum total weight for low soil pollution
- Maximum flexibility due to easy mounting and dismounting on any UniSpread
- Continuous output for high impact
- Easy to assemble due to cat. 3 mounting
- Lightweight linkage with a sophisticated slim design for maximum payload
- Including patent reversible pipe 125 DN
- Hydraulic slide valve and connection for flushing head in series

### EQUIPMENT AND OPTIONS:

- Choice between trailing shoe or dribble bar variant
- Exact manifold ECQ
- Follow-up control
- Manual toggle switch control
- T-piece with spreading head
- Swivel joint
- Pressure flow meter
- Pressure measuring capsule

### SPECIFICATIONS

Max. throughput: from 5,200 up to 7,800 l/min (depending on pressure and flow rate as well as dry matter content)

Working width in m	Number of precision distributors	Hose distance in cm	Transport width in m	Weight (hose) in kg	Weight (shoe) in kg
6	1	25	2.5	560	600
7.5	1	25	2.5	660	710
9	1	25	3.0	730	790
9*	1	25	2.5	790	850
10.5*	1	25	2.5	890	950

\* Automatic end arm folding (optional for 9 m).





# BackPac dribble bar linkage

Large working widths, lightweight,  
universal and super smart

The solution for hosing systems independent  
of the towing vehicle

**Advantages:**

- Minimum total weight of the spreading system for minimum soil compaction
- Very high impact force due to continuous spreading
- Maximum flexibility: Ideally coordinated folding mechanisms allow up to four different working widths to be set, without frame parts protruding. Additional hose groups can be switched off individually
- Dimensionally stable end hoses divide the crop for minimal crop contamination and optimal liquid manure placement at equally-spaced intervals
- Slope compensation: Optimal adaptation to the soil conditions
- Fully automatic control: Maximum user-friendliness thanks to customized headland and folding management
- Maintenance-free joints

**EQUIPMENT AND OPTIONS:**

- 3-point design including mounting foot
- Active slope compensation: Inclination angle of the linkage is controllable
- ISOBUS capable control
- Digital flow and pressure measurement
- Pulling arm with swivel flange
- Automatic rinsing function
- Partial width management: Gate valve or Comfort Flow Control
- Optionally with lifting device

**SPECIFICATIONS**

Max. flow rate: from 12,400 up to 14,000 l/min (depending on pressure and flow rate as well as DS content)

Working width in m	Foldable to in m	Number of precision distributors	Hose distance in cm	Weight (basic version) in kg
21	18	2	26.25	2,950
24	21   18	2	25   30	3,000
27	24   18	2	28.13	3,260
30	27   24 18	2	31.25	3,300
32	30   27 24   18	2	33.33	3,450





# BackPac Slide trailing shoe linkage

## Lightweight with high impact force

The flexible trailing shoe system for hosing systems

### Advantages:

- Minimal total weight of the spreading system for minimum soil compaction
- Maximum flexibility: up to four different working widths without overhanging frame parts; additional hose groups can be switched off individually
- Precise placement of liquid manure in a narrow band below the crop thanks to dimensionally stable BaseRunner trailing shoes
- Slope compensation: Optimal adaptation to the soil conditions
- Fully automatic control: Maximum user-friendliness thanks to customized headland and folding management
- Maintenance-free joints

### EQUIPMENT AND OPTIONS:

- 3-point design including mounting foot
- Active slope compensation: Inclination angle of the linkage is controllable
- ISOBUS capable control
- Digital flow and pressure measurement
- Pulling arm with swivel flange
- Automatic rinsing function
- Partial width management: Gate valve or Comfort Flow Control
- Optionally with lifting device

### SPECIFICATIONS

Max. flow rate: from 12,400 up to 14,000 l/min (depending on pressure and flow rate as well as DS content)

Working width in m	Foldable to in m	Number of precision distributors	Shoe distance in cm	Weight (basic version) in kg
21	18	2	26.25	3,150
24	21   18	2	25   30	3,200
27	24   18	2	28.13	3,450
30	27   24 18	2	31.25	3,490





# Compax dribble bar linkage

Compact on the road, powerful in the field

The flexible solution for self-propelled vehicles

**Advantages:**

- Compact design due to intelligent folding mechanisms
- Trimmed for throughput performance:  
Hose diameter in 50 DN
- Can be attached to any self-propelled vehicle
- Dimensionally stable end hoses divide the crop for minimal crop contamination and optimal liquid manure placement at equally-spaced intervals
- Slope compensation: Optimal adaptation to soil conditions
- Fully automatic control: Maximum user-friendliness thanks to customized folding management
- Low total weight

**EQUIPMENT AND OPTIONS:**

- 3-point design including mounting foot
- Active slope compensation: Inclination angle of the linkage is controllable
- ISOBUS capable control
- Partial width management: Gate valve or Comfort Flow Control

**SPECIFICATIONS**

Max. flow rate: from 6,500 up to 8,000 l/min (depending on pressure and flow rate as well as DS content)  
Transport width: <3 m

Working width in m	Number of precision distributors	Hose distance in cm	Weight (basic version) in kg
12	2	30	1,800
15	2	31.25	1,900
18	2	22.5	2,850





# Compax Slide trailing shoe linkage

Directly at the plant, compact on the road

The flexible trailing shoe system for self-propelled vehicles

## Advantages:

- Compact design due to intelligent folding mechanisms
- Trimmed for throughput performance: Hose diameter in 50 DN
- Can be attached to any self-propelled vehicle
- Precise placement of liquid manure in a narrow band below the crop thanks to dimensionally stable BaseRunner trailing shoes
- Slope compensation: Optimal adaptation to soil conditions
- Fully automatic control: Maximum user-friendliness thanks to customized folding management
- Low total weight

## EQUIPMENT AND OPTIONS:

- 3-point design including mounting foot
- Active slope compensation: Inclination angle of the linkage is controllable
- ISOBUS capable control
- Partial width management: Gate valve or Comfort Flow Control
- Optionally with lifting device

## SPECIFICATIONS

Max. throughput capacity: up to 8,000 l/min (depending on pressure and flow rate as well as DS content)  
Transport width: <3 m

Working width in m	Number of precision distributors	Shoe distance in cm	Weight (basic version) in kg
18	2	22.5	2,950





# SwingUp dribble bar linkage

## Proven technology that pays off

Universal use featuring compact dimensions and high-quality workmanship

### Advantages:

- All-rounder for liquid manure spreading: regardless of the area of application, with the SwingUp you are ideally equipped for legally compliant liquid manure spreading\*
- Ideal for retrofitting: easy to attach to any tanker
- Very light and compact – weighs approx. 1,050 kg with a working width of 15 m
- Dimensionally stable end hoses divide the crop for minimal crop contamination and optimal liquid manure placement at equally-spaced intervals

\* Not allowed in every country.

### EQUIPMENT AND OPTIONS:

- Fixed attachment or 4-point version including mounting foot
- Hydraulic unlocking of the side arms (for fixed attachment)
- Partial width management: Gate valves, ball valves or Comfort Flow Control
- TeleShift at rear/front to reduce the transport length
- End hoses in 50 DN for smooth flow of the medium
- DropStop via separate control unit: Swinging up the hoses without folding the side arms
- Hydraulic control block for up to 6 functions:
  - Constant supply via pump connection P and tank connection T optional Load Sensing LS
  - Manual operation (toggle control) or by means of ISOBUS control
- LED lighting

### SPECIFICATIONS

Max. flow rate: from 6,500 up to 15,600 l/min (depending on pressure and flow rate as well as DS content)  
Transport width up to tank diameter 2.1 m: <3 m

Working width in m	Number of precision distributors	Hose distance in cm	Weight (basic version) in kg
7.5	1	25	870
9	1	30	900
12	2	25	990
15	2	25	1,050
18	2	30	1,930





# SyreN manure acidification system

## Ready for the future

With manure stabilization for optimum nutrient utilization

### Advantages:

- Superior nutrient utilization thanks to reduction in nitrogen losses of up to 70 %
- Massive reduction in emissions by shifting the ammonia-ammonium balance through the addition of sulfuric acid for reduced odor nuisance and greater flexibility in spreading times
- Additional fertilization with sulfur and phosphate mobilization
- Increase in yields due to optimized use of nutrients
- High area coverage and fewer lanes keep crop damage to a minimum compared to the injection method
- Even more emission saving for future-oriented liquid manure management
- Front tank system for maximum safety and practicality

### EQUIPMENT AND OPTIONS:

- Additional additive tank for using nitrification inhibitors
- The system is connected via ISOBUS using the existing isobus terminal of the tractor or an external terminal
- Double-walled IBC tanks for safe acid handling
- Three add-on cameras for maximum overview and traffic safety
- ADR safety package
- Optional front transporter for IBC tanks
- Integrated front suction arm with PowerFill accelerator for optimal integration into field logistics

### SPECIFICATIONS

Tare weight in kg	1,100
Max. operating weight in kg	3,800
Width in mm	2,512
Depth in mm	1,725
Height in mm	1,392
Oil quantity in l/min	25





# SynCult Upgrade Kit

## Professional upgrade kit for direct incorporation of liquid manure

Efficient fitting kit for various cultivators

### Advantages:

- Direct incorporation of liquid manure for optimum use of nutrients
- Combines several work steps in one to save on time and costs
- Pre installed distributor and hose kit with fixtures for a quick and easy installation in factory or for retrofit

### EQUIPMENT AND OPTIONS:

- Working widths of 4 - 12 m (depending on the manufacturer)
- DosiMat DMX precision distributor for working widths of up to 7 m, ExaCut precision distributor for working widths of 8 m and greater
- The distributor is fixed to the tillage unit using a specially designed, hot-dip galvanized adapter
- Hose diameter 50 DN

### SPECIFICATIONS

SynCult is available for tillage units by Amazone, Horsch, Köckerling and Lemken. We will be pleased to provide detailed specifications on request.





# XTill® Strip Till System

## Strip tillage with optional liquid manure underfoot fertilization

Innovative working combination

### Advantages:

- Combines several work steps in one to save on time and costs
- Tools individually guided on the parallelogram for a precise and consistent working depth
- Adjustable placement depth of the medium, independent of the working depth
- Star-shaped clearing discs separate the crop and ensure a clean furrow
- Each plowshare is protected by a hydraulic stone protector

### SPECIFICATIONS

No. of rows	4	6	7	8	9	11	12
Transport width in m	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Row spacing in cm	47 – 75	47 – 75	47 – 75	47 – 75	47 – 50	47 – 50	47 – 50
Working width	Depends on the row spacing						
Required hydraulic connections	1 x DW (double-acting control unit) for side arm flaps, 1 x DW for DosiMat DMX, 1 x EW (single-acting control control unit) for stone protector, 1 x compressed air connection						
Design	Coulter blade, star-notched disk blades, loosening share with liquid manure placement, ridging disks, press wheels (available in different models)						
Precision distributor	DosiMat DMX						

### EQUIPMENT AND OPTIONS:

- Hydraulically foldable frame for 3 m transport width
- Open or closed pressure rollers
- Integrated height control on coulter blade
- DosiMat DMX precision distributor
- LED lighting











# The heart of all spreading systems

## Precision distributors for powerful performance

- Precise distribution of liquid manure and digestate as a natural source of nutrients for plants
- Lower nutrient loss and reduced mineral fertilizer thanks to precision spreading
- Optimal cutting performance and high distribution accuracy for maximum precision, with excellent coefficients of variation
- Compatible and universal: From dribble bar and trailing shoe systems to slitters, cultivators and short disc harrows
- Long service life and user friendly maintenance from the technology leader



# ExaCut ECQ precision distributor

## Exactly what a precision distributor should look like

The best distribution result in combination with the easiest service concept

### Advantages:

- 99 % distribution accuracy, making it Number 1 worldwide (DLG test report 7030)
- Also Number 1 worldwide in maintenance: Easy and unique disassembly in less than 20 minutes without removing a single hose
- 3x service life of the cutting unit components of up to 150,000 m<sup>3</sup> per distributor
- High cutting force due to "keep-in-touch" principle: Eccentric prevents the cutting blade from lifting off the cutting screen even with coarse disruptive matter
- User-friendly eccentric activation due to central clamping screw
- Continuous, optimal degree of sharpness ensured by reversing direction of rotation
- Increase in spreading capacity by almost 30 %
- Only 35 l oil capacity

### EQUIPMENT AND OPTIONS:

- Partial width management with Comfort Flow Control
- TopInlet: additional liquid manure inlet at the top of the distributor for central positioning in the spreading linkage
- Individual configuration options for cutting rings and blades
- Rotation speed sensor
- User-friendly heavy material separator
- Generous cross-sections up to 150 DN for maximum effectiveness: Reduced pressure losses and power consumption of the components in the liquid manure system
- Sealing package between the housing and the hydraulic motor for maximum operational reliability



### SPECIFICATIONS

Throughput l/min	Up to 7,800*
Number of outlets	24 – 48
Hose diameter	40 DN   50 DN
Inlet diameter on the side	100 DN   125 DN   150 DN
Oil quantity in l/min	35

\* Depending on pressure and flow rate as well as DS content.





# ExaCut ECL precision distributor

## Proven precise distribution in a small space

Optimal cutting results, maximum reliability

### Advantages:

- Proven 10,000 times over: The best-selling distributor in the world
- Wide variety and flexible use: The right precision distributor for every application
- Excellent distribution accuracy
- High cutting force: Eccentric adjuster for optimal contact pressure and efficient cutting performance
- Low wear of the cutting blades thanks to automatic adjustment
- Matched geometry of cutting screen and cutting blades for maximum cutting performance (scissors effect)
- Self-sharpening cutting tools: Reversing the rotation direction maintains a constant degree of sharpness over the entire lifetime
- Sealing package between the housing and the hydraulic motor for maximum operational safety

### EQUIPMENT AND OPTIONS:

- Several variants are available for the filling nozzle
- Partial width management with Comfort Flow Control
- TopInlet: additional liquid manure inlet at the top of the distributor for central positioning in the spreading linkage
- Individual configuration options for cutting rings and blades
- User-friendly heavy material separator

### SPECIFICATIONS

Throughput l/min	Up to 8,000*
Number of outlets	18 – 48
Hose diameter	40 DN   50 DN
Oil quantity in l/min	60

\* Depending on pressure and flow rate as well as DS content.





# ExaCut ECC precision distributor

## Novel distribution principle without air suction

More throughput and cutting force

### Advantages:

- Innovative rotor concept: excellent distribution accuracy, even without air suction and ventilation hoses
- Enormous cutting force thanks to the tried-and tested cutting principle
- Proven ExaCut maintenance concept: Easy and unique rotor maintenance in less than 20 minutes without removing a single hose
- Very smooth distribution without pulsation of the hoses
- Developed for the use of injection machines and cultivators
- User-friendly eccentric activation due to central clamping screw
- Cross-sections up to 150 DN for maximum effectiveness: Reduced pressure losses and power consumption of the components in the liquid manure system
- Only 35 l oil capacity
- Conical screens for optimum cutting results

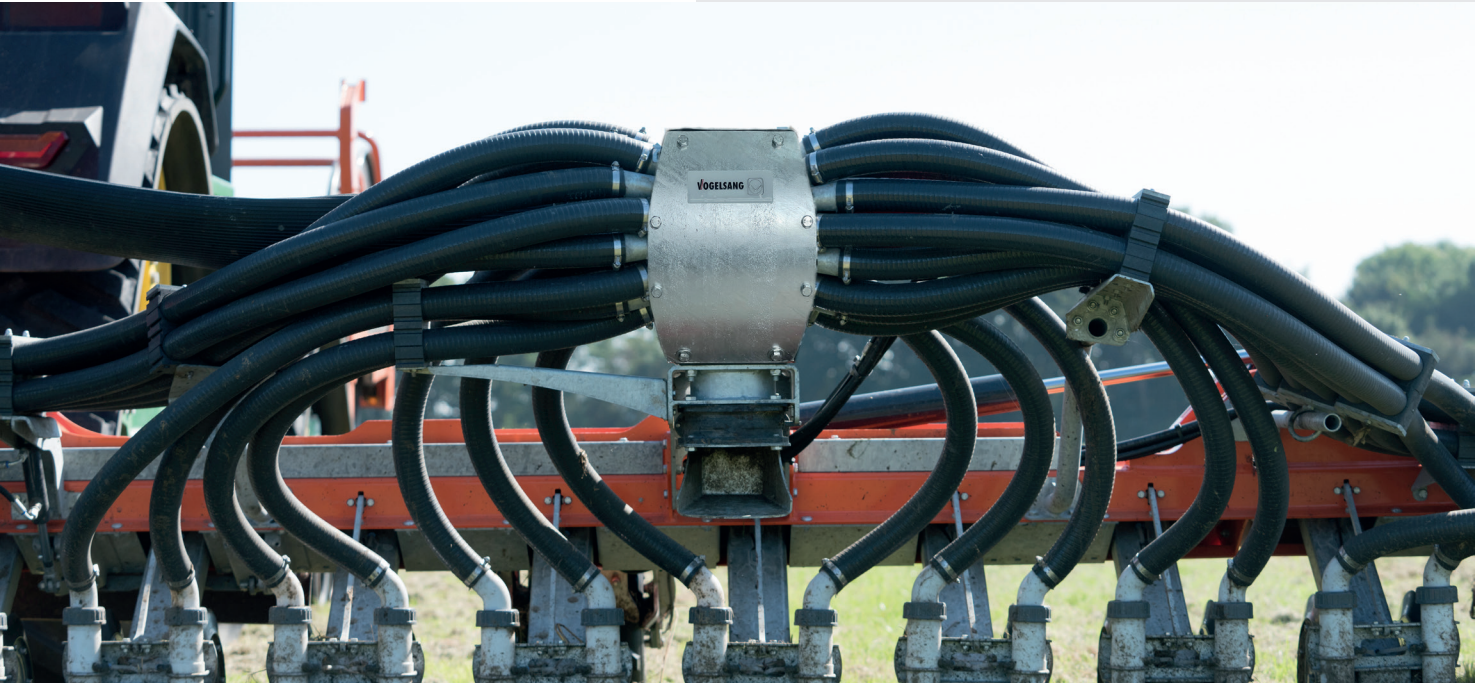
### EQUIPMENT AND OPTIONS:

- Several liquid manure inlets are available
- Partial width management with Comfort Flow Control
- TopInlet: additional liquid manure inlet at the top of the distributor for central positioning in the spreading linkage
- Individual configuration options for cutting rings and blades
- Rotation speed sensor
- User-friendly heavy material separator
- Continuous, optimal degree of sharpness ensured by reversing direction of rotation
- Sealing package between the housing and the hydraulic motor for maximum operational reliability

### SPECIFICATIONS

Throughput l/min	Up to 7,900*
Number of outlets	30   40
Hose diameter	40 DN   50 DN
Inlet diameter	100 DN   125 DN   150 DN
Oil quantity in l/min	35

\* Depending on pressure and flow rate as well as DS content.





# ExaCut ECM precision distributor

## Small and compact

Precise distribution without air suction  
in a small space

### Advantages:

- Precise distribution without aeration hoses and air suction
- Innovative rotor concept
- Compact and small
- 30 % less weight
- Universally applicable, e.g. to realize short hose paths
- Very good transverse distribution already at 1500 l/min per exact distributor
- Continuous optimum degree of sharpness due to change of direction of rotation
- Conical screens for optimum cutting results

### EQUIPMENT AND OPTIONS

- Part width management with Comfort Flow Control
- TopInlet: additional liquid manure inlet at the top of the distributor for central positioning in the spreading linkage
- Individual configuration options for cutting rings and blades
- User-friendly heavy material separator

### SPECIFICATIONS

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





# DosiMat DMX precision distributor

## Makes any amount possible

Variable spreading rate, precise distribution

### Advantages:

- Best distribution accuracy thanks to the flow-optimized rotor contour for use in the field of injection technology
- Consistently high distribution accuracy regardless of the flow rate
- Long service life of the cutting tools of up to 200,000 m<sup>3</sup> per distributor
- Service friendly design for easy maintenance of all relevant elements
- Sophisticated cutting blade contour for reliable shredding and homogenization of the liquid manure
- Air suction: Patented membrane for automatic regulation of air flow
- Weight reduction of up to 25 % through selection of ideal materials
- Sealing package between the housing and the hydraulic motor for maximum operational safety

### EQUIPMENT AND OPTIONS:

- Thanks to different head diameters, small and large spreading quantities are possible
- Various combinations of head diameters, outlets and outlet sizes to comfort any requirement
- Energy-efficient designed rotors in straight or star shape allow different spreading rates
- Safety valve for maximum working safety

### SPECIFICATIONS

Throughput l/min	Up to 10,000*
Number of outlets	08 – 60
Hose diameter	40 DN   50 DN   60 DN
Oil quantity in l/min	Varies depending distributor size between 40 und 70

\* Depending on pressure and flow rate as well as DS content.





# Comfort Flow Control hose shut-off

## Individual switching of specific hose groups

Ingenious and patented

### Advantages:

- Reliable hose switch-off for part-width sections, tramlines, switch-off of individual groups
- Simple assembly and low cost
- Convenient operation per switchboard from the cab
- Trouble free operation thanks to a simple working principle
- Economical spreading for all field shapes
- Can be retrofitted to any system











# Powerful and reliable agricultural technology

## Pumps and cutters for agriculture

- Reliable components for comprehensive liquid manure management: from the farm to the plant
- Innovative engineering based on experience and research
- Exceptional durability and low maintenance requirements due to exceptional material quality and integrated foreign matter protection
- Selection of drive variants, series and modes of operation delivers practical solutions
- Adaptable components for ideal combination with all manufacturers
- Modular design for individual further development and economical operation



# VX series

## rotary lobe pumps

The professional among pumps:  
durable, powerful,  
easy to maintain

The all-rounder

Advantages:

- Sophisticated engineering ensures maximum service life with minimal operating costs
- Unique InjectionSystem: First integrated protection against foreign matter for rotary lobe pumps, paired with a more robust internal seal
- Quality Cartridge: Professional sealing technology for maximum operational reliability
- HiFlo rotary lobes: Pulsation-free pumping for exceptionally smooth running
- Axial and radial wear plates: Completely lined pump housing made of highly wear-resistant special steel to optimize service life and maintainability
- QuickService: Quick access to all wear parts without removing the pump
- Up to 37 % less weight than comparable models from other manufacturers

EQUIPMENT AND OPTIONS:

- Individual configuration options in terms of models, rotary lobes and materials
- Various drive options
- InjectionSystem for improved resistance to foreign matter  
Radial wear plates for extended maintenance intervals
- Flexurally stiff shafts for minimum shaft deflection, even at high pressure
- Replacement of individual parts enables cost-effectiveness thanks to element design
- Rotation speed sensor for precise spreading rates
- Universal Drive System enables different drive types

SPECIFICATIONS

Type	Hub-Vol. in l	Max. pressure in bar (Q)	Max. pressure in bar (QD)	Max. capacity* in l/min	Max. speed in rpm
Series VX136					
70	1.27	10	12	1,010	800
105	1.90	10	12	1,520	800
140	2.53	8	12	2,020	800
210	3.80	5	10	3,040	800
280	5.06		8	4,040	800
420	7.59		6	6,070	800
Series VX186					
92	3.56	10		2,130	600
130	5.03	10	12	3,010	600
184	7.12	8	12	4,270	600
260	10.06	5	10	6,030	600
368	14.24	2 [3**]	8	9,000	630
390	15.09	2 [3**]	7	9,050	600
520	20.12		6	12,070	600
736	28.48		3	17,080	600
Series VX215					
226	15.47	5	8	8,350	540
320	21.88	2.5	7	11,810	540
452	30.94		5	16,700	540
640	43.76		3	23,630	540

\* Maximum theoretical volume flow. In practice, the capacity is normally lower, depending on pressure difference, medium viscosity, and pump installation. We would be happy to configure the best rotary lobe pump for your application with the help of our computer-assisted dimensioning software.

\*\* Not in continuous operation.







# GL series rotary lobe pumps

A new dimension in pumping technology:  
Powerful as ever, compact and lightweight  
as never before

The lightweight

**Advantages:**

- Maximize payload on the vehicle with up to 48% less weight
- Space savings of up to 27% for compact installation
- Lower power consumption and thus less energy demand
- Inimitably smooth running
- Larger volume flows due to high-quality motors that ensure the maximum flow rate of the pump under continuous load
- Up to 4 times longer service life of the sealing package thanks to sophisticated geometry of the wear plate

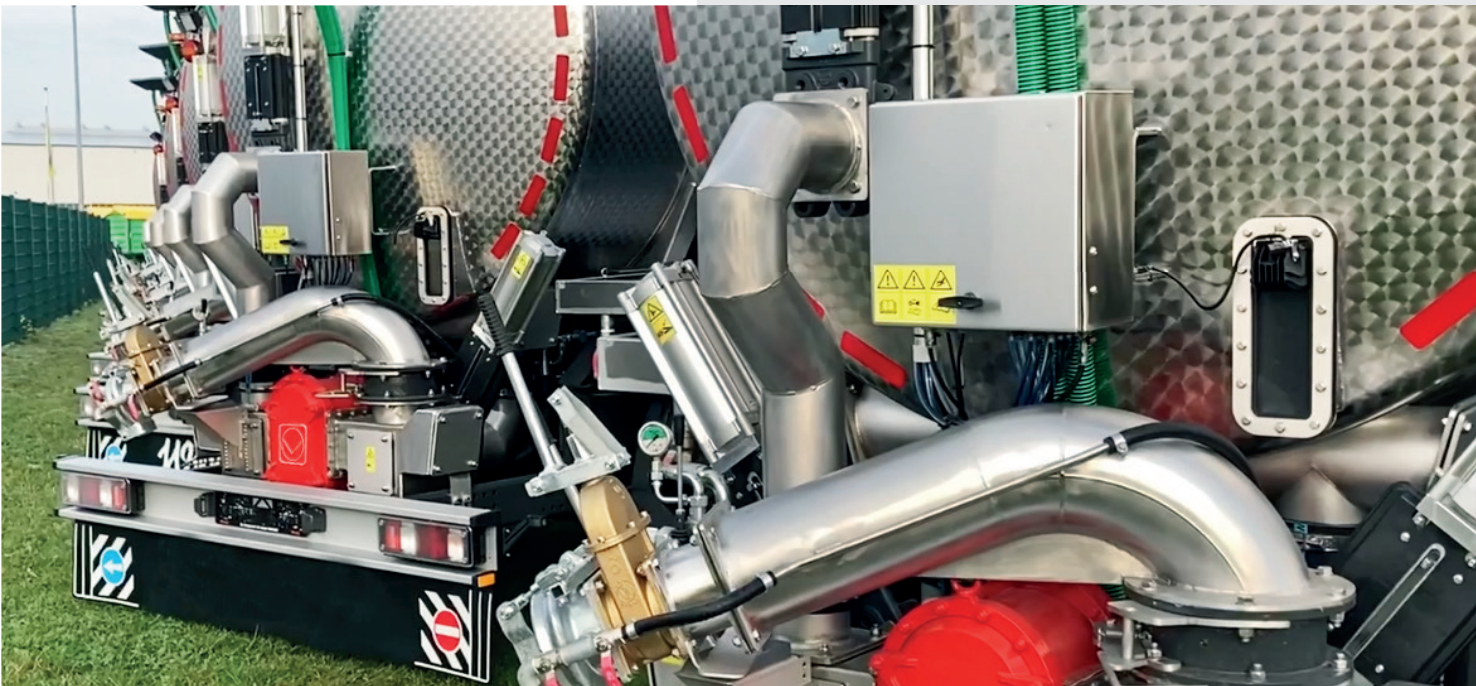
**EQUIPMENT AND OPTIONS:**

- Individual configuration options in terms of models, rotary lobes and materials
- InjectionSystem for improved resistance to foreign matter
- Axial and radial wear plates made of highly wear-resistant special steel for extended maintenance intervals and increased maintainability
- Quality Cartridge: Professional sealing technology for maximum operational reliability
- Rotation speed sensor for precise spreading rates

**SPECIFICATIONS**

Type	Hub-Vol. in l	Max. pressure in bar	Max. capacity* in l/min	Max. speed in rpm
186 - 184Q	7.12	8	4,270	600
186 - 260Q	10.06	5	6,030	600

\* Maximum theoretical volume flow. In practice, the capacity is normally lower, depending on pressure difference, medium viscosity, and pump installation. We would be happy to configure the best rotary lobe pump for your application with the help of our computer-assisted dimensioning software.





# FX series rotary lobe pumps

Proven liquid manure pump that offers you more

The progressive

**Advantages:**

- No lubrication work required due to integrated recirculating oil lubrication system
- Block ring seal for long service life
- Self-priming and resistant to foreign matter
- Smooth running thanks to sophisticated rotary lobe arrangement
- Lower power requirement thanks to rotating separation plate
- Axial wear plates for maximum protection of the pump chamber
- Flexible use thanks to different drive types

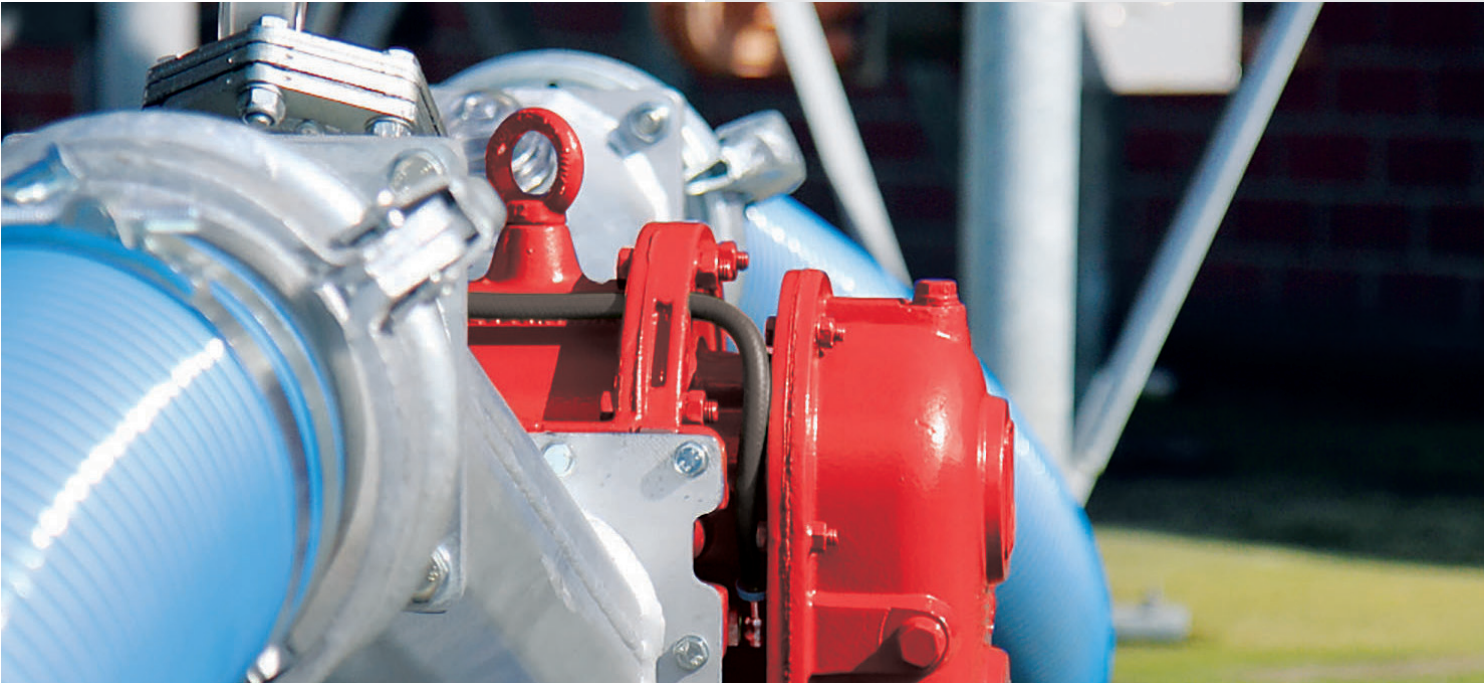
**EQUIPMENT AND OPTIONS:**

- Axial wear plates made from highly wear-resistant special steel
- Variety of rotary lobes
- Block ring seal
- No need for oil recirculation lubrication

**SPECIFICATIONS**

Type	Hub-Vol. in l	Max. pressure in bar	Max. capacity* in l/ min	Max. speed in rpm
Series FX116				
FX116 - 60	1.16	8	750	650
FX116 - 120	2.32	7	1,500	650
FX116 - 180	3.48	6	2,250	650
FX116 - 240	4.64	5	3,000	650
FX116 - 300	5.80	4	3,800	650
FX116 - 360	6.96	3	4,500	650

\* Maximum theoretical volume flow. In practice, the capacity is normally lower, depending on pressure difference, medium viscosity, and pump installation. We would be happy to configure the best rotary lobe pump for your application with the help of our computer-assisted dimensioning software.





# R series rotary lobe pumps

Thousandfold proven pump technology  
for yard and field

The rugged

**Advantages:**

- Keep it simple: Economic solution with all necessary functions
- Ideal for both occasional and simultaneously reliable use
- Self-priming and resistant to foreign matter
- Smooth running thanks to sophisticated rotary lobe design
- Axial wear plates for maximum protection of the pump chamber
- Flexible use thanks to different drive types

**EQUIPMENT AND OPTIONS:**

- InjectionSystem for improved resistance to foreign matter (R136 only)
- Axial wear plates made from highly wear-resistant special steel
- Variety of rotary lobes

**SPECIFICATIONS**

Type	Hub-Vol. in l	Max. pressure in bar	Max. capacity* in l / min	Max. speed in rpm
Series R116				
60	1.16	5	750	650
120	2.32	5	1,500	650
180	3.48	5	2,250	650
240	4.64	5	3,000	650
300	5.80	4	3,800	650
360	6.96	3	4,500	650
Series R136				
70	1.27	5	800	650
150	1.90	5	1,200	650
140	2.53	5	1,650	650
210	3.80	5	2,500	650
280	5.06	5	3,300	650
350	6.33	5	4,100	650
420	7.59	5	5,000	650

The R136 series is also available with the InjectionSystem on request.

\* Maximum theoretical volume flow. In practice, the capacity is normally lower, depending on pressure difference, medium viscosity, and pump installation. We would be happy to configure the best rotary lobe pump for your application with the help of our computer-assisted dimensioning software.





# ProCap T eccentric screw pump

Completes the portfolio of positive displacement pumps

Robust pump solution with compact installation dimensions

**Advantages:**

- More compact installation dimensions compared to other screw pumps
- Intelligent modular system for low spare parts inventory and greater flexibility
- Fully welded housing for maximum durability
- Large free passage for maximum service life
- Low-wear pumping thanks to high resistance to foreign matter

**EQUIPMENT AND OPTIONS:**

- High-quality mechanical seal for long pump service life
- Hollow rotor for smooth running
- Robust, maintenance-free universal joints
- Double bearings in the drive adapter for higher stability
- Optional: Reduction gear with low shaft misalignment

**SPECIFICATIONS**

Type	Hub-Vol. in l	Max. pressure in bar	Max. capacity* in l/ min	Max. speed in rpm
4250	7.87	6	4,250	540
6000	11.11	6	6,000	540

\* Maximum theoretical volume flow. In practice, the capacity is normally lower, depending on pressure difference, medium viscosity, and pump installation. We would be happy to configure the best rotary lobe pump for your application with the help of our computer-assisted dimensioning software.





# RotaCut<sup>®</sup> cutter

Maximum cutting performance with reliable  
foreign matter separation

Protects pump and system technology

Advantages:

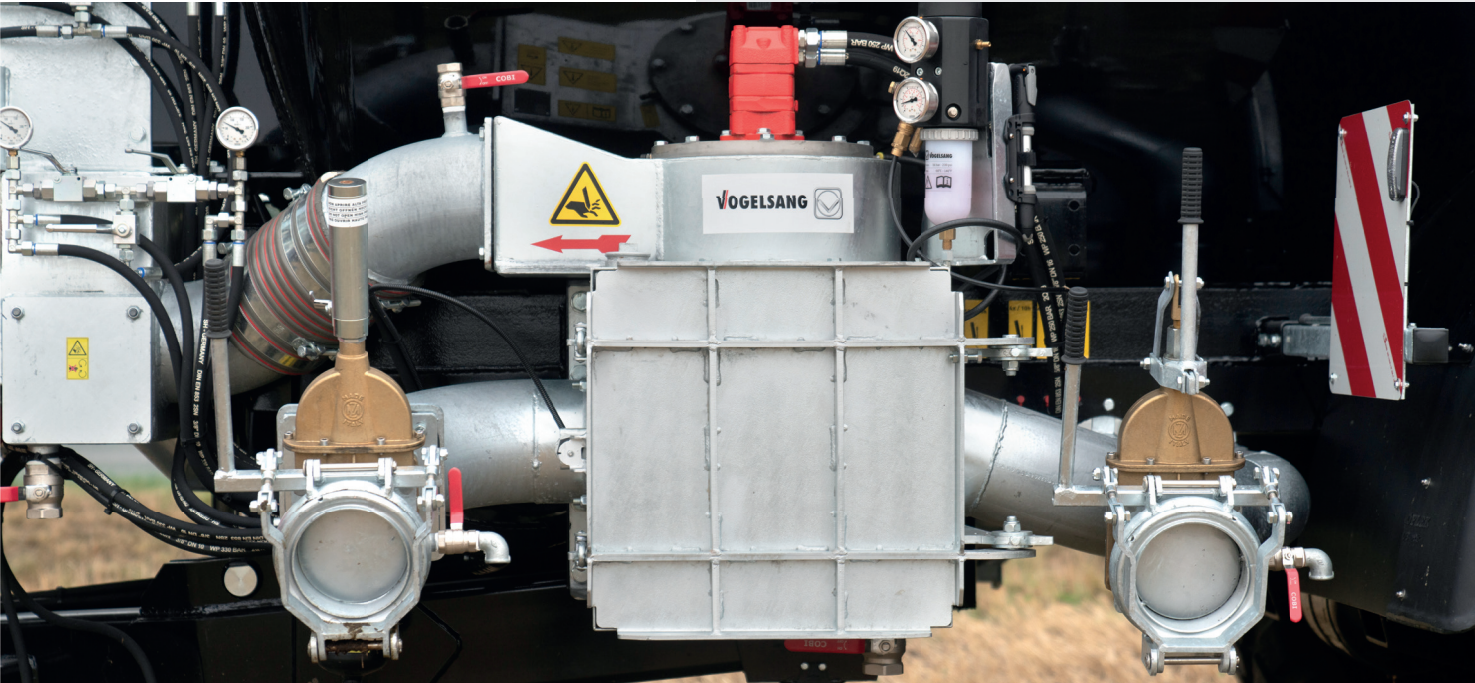
- Reliably shreds fibrous and foreign matter in liquid media
- Optimally tailored components for every application
- Inimitable cutting performance thanks to optimized self-sharpening cutting geometry
- Optional Automatic Cut Control (ACC) for permanently constant cutting performance and maximum service life of the cutter unit components
- Sophisticated housing design for high separation efficiency
- Easy to maintain due to good accessibility of the cutter unit components

EQUIPMENT AND OPTIONS:

- Drive variants with hydraulic and gear motor
- Individual designs for every application, whether stationary or mobile
- Cutting screens in different shapes and sizes, customizable
- Automatic Cut Control for fully automatic adjustment of the contact pressure between the cutting blade and screen: as high as necessary, as low as possible

SPECIFICATIONS

Type	Max. flow rate in m³/h	Max. flow rate in l/min
RCQ - 20	90	1,500
RC3000	180	3,000
RC5000	300	5,000
RC10000	600	10,000
RCX - 48	600	10,000
RCX - 58	750	12,500









# FillMaster tanker filling station

## Convenient and time saving

System for rapid tanker filling

### Advantages:

- Reliable and fast filling of the tanker
- Unique and convenient connection and disconnection of hoses
- Choice of operating mode: FillMaster S is a stationary tanker filling station and FillMaster M is a mobile version on the tractor
- Stationary pumping system: VX-series rotary lobe pump or PowerFill filling aid
- Mobile pumping system: VX series rotary lobe pumps

### EQUIPMENT AND OPTIONS:

- Stationary: Optional control of the filling arm for filling from the operator's cab
- Stationary: Various drive options available for the FillMaster S
- Mobile: With three-point base for transport with any tractor
- Mobile: Filling with Perrot coupling or optional riser pipe with boom
- Mobile: Version with heavy material separator
- RotaCut cutter optionally combinable

### TECHNISCHE DATEN

Type	Max. flow rate in l/min	Max. pressure in bar (QD)
FillMaster	6030	10
FillMaster	9000	8





# PowerFill turbo filler

## Efficient and fast

Optimized filling of vacuum tankers

### Advantages:

- Up to 30 % less filling time for tankers with vacuum system
- Complete utilization of the transport volume thanks to complete filling and less foam formation
- More precise liquid manure spreading due to homogenization
- Easy to retrofit
- Surprising performance despite compact design
- High volume flow thanks to optimized engineering

### EQUIPMENT AND OPTIONS:

- Various drive options (hydraulic or mechanical)
- Integrated cleaning port
- 6" or 8" version
- Available as PowerFill Small variant with 40 % less weight

### SPECIFICATIONS

Motor type: Hydraulic motor	Speed in rpm	Differential pressure in bar	Hydraulic capacity of tractor in l/ min	Maximum oil flow in l/ min	Optimum oil flow in l/ min	Connection flange in" in"
PowerFill						
OMR 100	600	140 – 160	min. 55	70	60	6, 150 DN
OMS 100	750	140 – 160	min. 65	85	75	8, 200 DN
SCM 084	1,000	200 – 350	min. 65	90	85	8, 200 DN
PowerFill S (Small)						
OMS 100	750	140 – 160	min. 65	85	75	8, 200 DN
SCM 084	1,000	200 – 350	min. 65	90	85	8, 200 DN





# XSplit® screw press separator

**Absolute maintainability due to innovative design**

High throughput with adjustable DS content

**Advantages:**

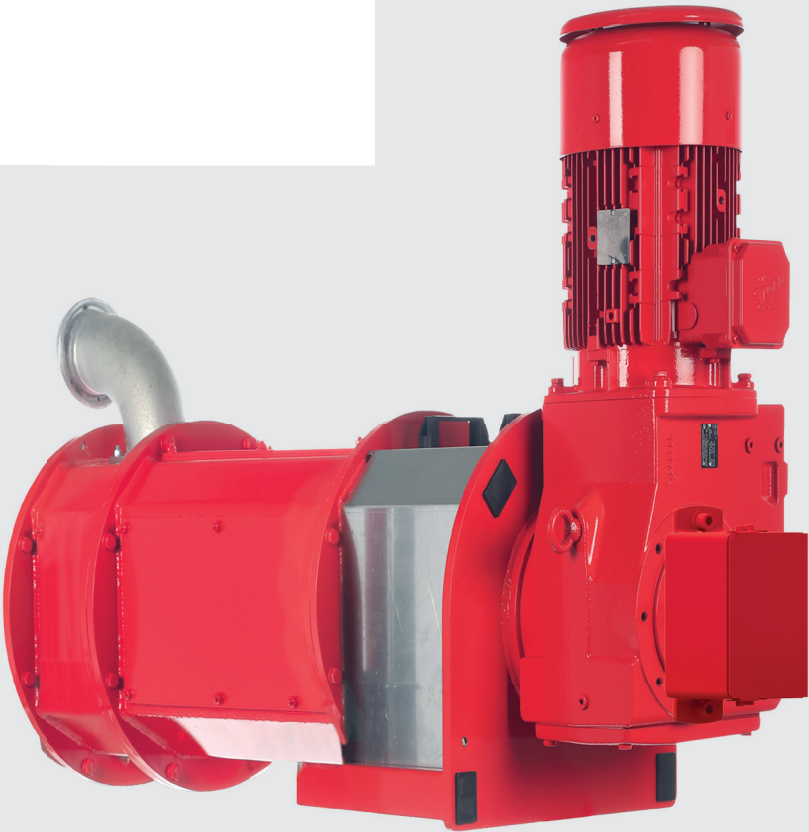
- Perfect disintegration of liquid manure and digestate
- High dry matter content of up to 40 % possible
- Variation of the DS content due to adjustable pressing range
- Very easy access to the cutting screen and feed screw for quick service
- No shaft seal required thanks to the innovative drive arrangement behind the solid matter outlet
- Reliable plug formation with almost no leakage
- Ideal separation results thanks to high-quality elastomer sealing disc
- Optimal separator start-up behavior
- Small space requirement thanks to compact design

**EQUIPMENT AND OPTIONS:**

- Wide range of cutting screen variants for reliable separation results with every medium
- Optional: Modular control and pumping technology
- Optional: VarioAdjust for hydraulic adjustment of the contact pressure
- Available with different control systems, lifting frames and pumps

**SPECIFICATIONS**

Flow rate in m³/h	Up to 50
DS content in %	Up to 40
Speed in rpm	15 – 36
Drive power in kW	4 – 7.5
Dimensions LxWxH in mm	1,450x550x950










# 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.



Since its establishment in 1929, Vogelsang has become an internationally recognized mechanical engineering company with numerous branches, sales centers and subsidiaries.





### **We think ahead**

Thinking ahead in your best interest begins with our extensive and detailed product documentation. Spare parts are available within a short time due to our high degree of vertical integration in production. In addition, you will always find an authorized service partner in your area who can help with repairs and wear part replacement. The Vogelsang ServicePack completes the offer. Whether you need start-up, on-site training, training at the Vogelsang facility, or full service support with a maintenance contract and a wear parts service package – we offer a support program tailored specifically to your needs.



## What we offer

We offer 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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