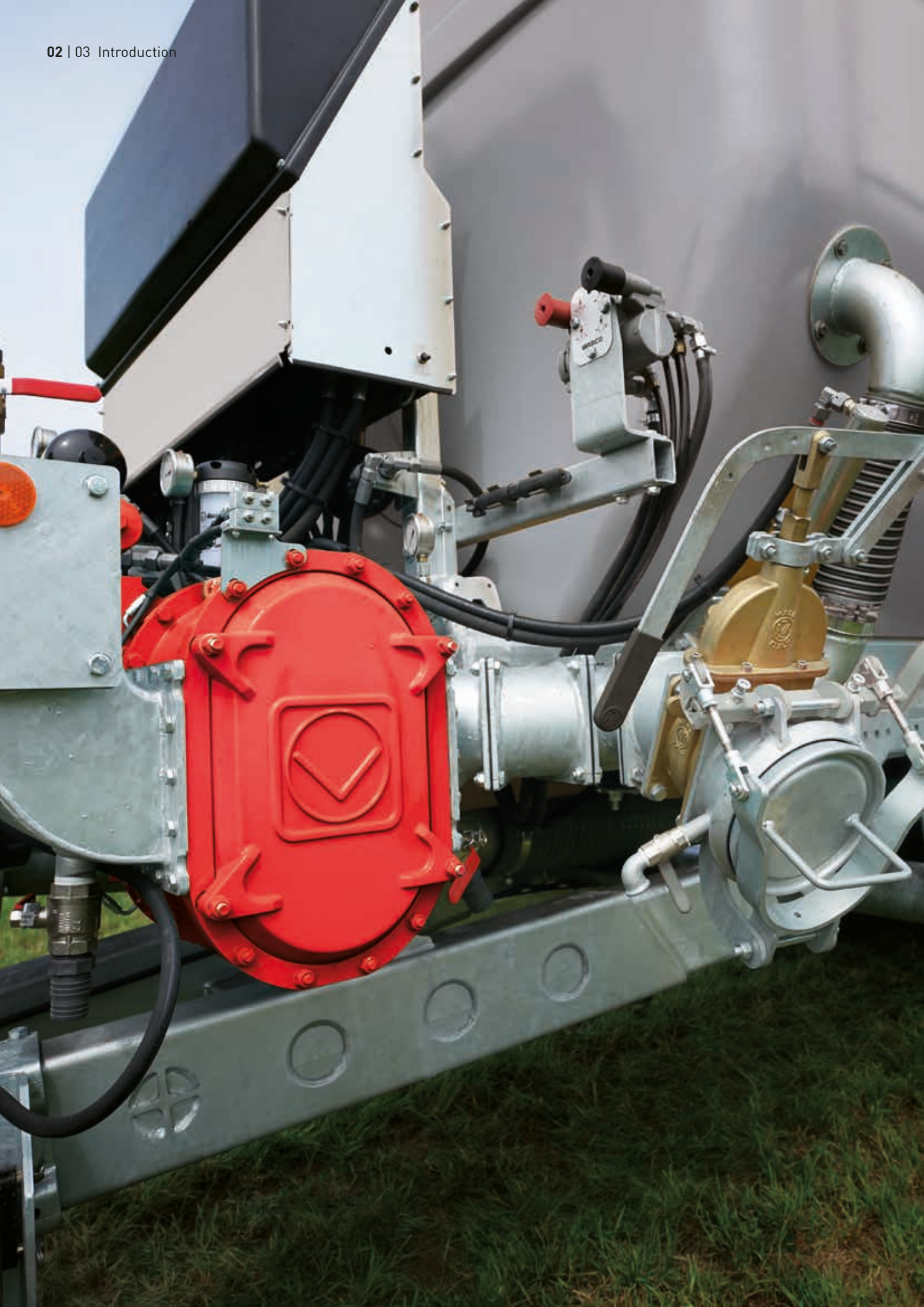


POWERFUL AND RELIABLE AGRICULTURAL TECHNOLOGY

Pumps and cutters for agriculture

VOGELSANG – LEADING IN TECHNOLOGY

VOGELSANG





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 rotary lobe pumps and cutters.

Based on our diverse experience and constant research, we develop powerful and need-based machines that also impress with their low maintenance requirements and exceptional durability.

Both the production and material quality of our rotary lobe pumps and cutters are testimony to our responsible actions for the benefit of our customers. Their adaptability and versatility foster economy as well as sustainability, and allow agricultural operations to react effectively to current circumstances and any requested changes.

Maximize the value of slurry as a material

Reliable pump and shredding technology for nutrient-efficient, modern slurry management

Slurry as a nutrient source
Slurry and digestates are essential valuable materials in agriculture, and the basis for a good nutrient supply for soils and crops and a successful harvest. Anyone who uses these natural fertilizers correctly and precisely can significantly reduce the need for organic fertilizer. Not just any pump and shredding technology can deliver this organic fertilizer to the field effectively. The slurry not only contains fibrous material, but also generally contains all kinds of foreign matter. Vogelsang can support you in managing the processes involved by providing innovative and reliable technology that is backed by decades of experience.

Pumps for the farm
Transferring, draining, filling – whatever the day brings, the job has to be done. With their many useful characteristics, Vogelsang rotary lobe pumps help you in your daily work. Among other features, our pumps include the InjectionSystem and Cartridge mechanical seals, which make the pumps more resistant to fibrous and foreign material.

Equipment for spreader vehicles
Less foam, complete filling, large suction capacity and even draining: with the low-maintenance, compact Vogelsang rotary lobe pumps and RotaCut cutters, you can make the most of your spreader vehicle's potential.

Mobile solutions
Vogelsang provides maximum pumping power for effective slurry spreading with field-side containers, filling stations and tankers: sophisticated solutions with powerful technology that improves your efficiency.

Variety of solutions
Vogelsang pumps offer a variety of configurations: permanently installed, on a three-point base, with electric or hydraulic motor, or with PTO drive.

Overview of Vogelsang agricultural technology

Rotary lobe pumps



R-Serie

- Sturdy pump technology for simple applications
- Performance: max. 5 bar, max. 6,000 l/min



FX-Serie

- Developed specifically to meet the tough demands of agriculture
- Circulating oil lubrication makes it easy to operate
- Performance: max. 8 bar, max. 4,500 l/min



VX-Serie

- Powerful top technology
- Long service life and low maintenance requirements thanks to HiFlo lobes and InjectionSystem
- Cartridge mechanical seal
- QuickService concept for fast wear part replacementl
- Performance: max. 12 bar, max. 23,630 l/min

Rotary lobe pumps



LoadMaster

- Up to 45 % less weight
- Up to 28 % less space
- Easier service
- Lower power consumption
- New synchronisation discs for extra smooth running

Progressive cavity pump



ProCap T

- High-quality mechanical seal for long life
- Hollow rotor for smooth running
- Robust, maintenance-free universal joints

Cutters



RotaCut® MXL

- Incomparable shredding technology for high reliability and economy
- Including a heavy material separator for use on a tanker increases operational safety

Filling technology



Powerfill

- Filling aid for vacuum systems
- Saves up to 30 % of time when filling the tank and homogenizes the slurry during filling



FillMaster

- Effective filling stations
- Problem-free filling of slurry tank vehicles no matter what the location



Vogelsang Pump VX 100

Experienced slurry specialists

The Vogelsang rotary lobe pumps – the epitome of simple, reliable and rapid pumping for 30 years

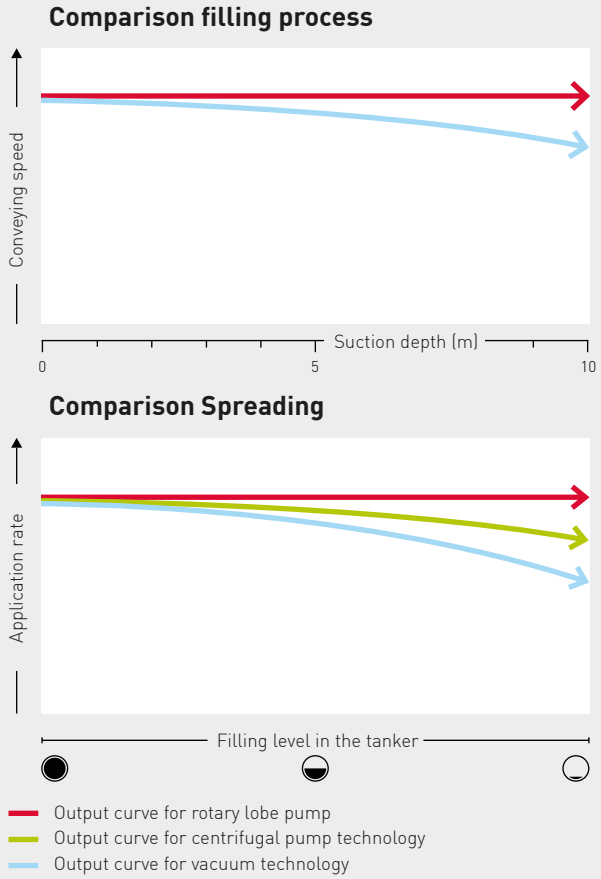
Vogelsang pumps are powerful, self-priming, reversible and, first and foremost, impervious to foreign matter. They are now an indispensable component of tankers. No wonder that Vogelsang rotary lobe pumps have become the epitome of slurry pumps in the agricultural sector in the past 30 years. After all, rugged technology is particularly necessary here and Vogelsang machines have proven their reliability again and again for transferring, pumping and filling.

Optimal slurry management
Operational safety and speed are the crucial factors for optimum slurry management. Tanks or self-propelled vehicles equipped with rotary lobe pumps offer both to facilitate effective delivering of slurry and digestates.

Integrated mixing
Active transferring/circulation homogenizes the slurry in the tank. This prevents a buildup of fibrous matter.

Even distribution
The pump system spreads the slurry constantly and evenly, regardless of how much liquid is in the tank or how much pressure there is. Even application is paramount for using slurry as an organic fertilizer.

Schematic performance calculation of rotary lobe pumps compared with vacuum and centrifugal pumps



Regardless of the suction depth the tanker will be filled in a constant speed and especially completely by the rotary lobe pump.

More volume, less foam

- In pump tanks, the vacuum remains constant and powerful throughout the entire filling process
- Minimum loss of suction power for slurry-pits to depths of up to eight meters
- Low foaming
- 30 % time advantage when filling, compared with vacuum tanks
- Full tank volume can be used





Rugged and easy to use

The R series as a reliable slurry pump for farms and fields

The R series at a glance

- 2 different series with up to 7 different capacity levels
- Up to 5,000 l/min
- Pressures up to 5 bar

With their simple and sturdy equipment, Vogelsang rotary lobe pumps in the R series are the endurance runners in agriculture. The rotary lobe pumps have a double bearing, a generously dimensioned shaft diameter and a basic selection of sizes, lobes and materials. The R series is particularly well suited as a slurry pump around the farm, as a filling and draining pump for tankers or as a mobile pump. Like all Vogelsang rotary lobe pumps, the R series is self-priming, very resistant to dry running and can be operated in both flow directions. The offset arrangement of the rotary lobes ensures running with low pulsation.



Advantages of the R series

- Self-priming
- Resistant to foreign matter
- Straight rotary lobes
- Axial wear plates made from highly wear-resistant
- Also available with stone trap

Materials in the R series
The pump chamber for the R series is made of gray cast iron, with good anti-friction characteristics and a strong resistance to abrasive wear. The face sides, which are subjected to greater strains, are protected from wear by high-strength special steel plates.

Lobes in the R series
We have developed special compounds for the elastomer that surrounds the lobe core in our rotary lobe pumps. They make it possible to tailor every pump to the specific medium and guarantee extra durability. We have a range of options available for lobes in the R series, e.g., NBR or FKM.

Drive types in the R series
- Cardan shaft
- Hydraulic motor
- Geared motor
- Combustion motor

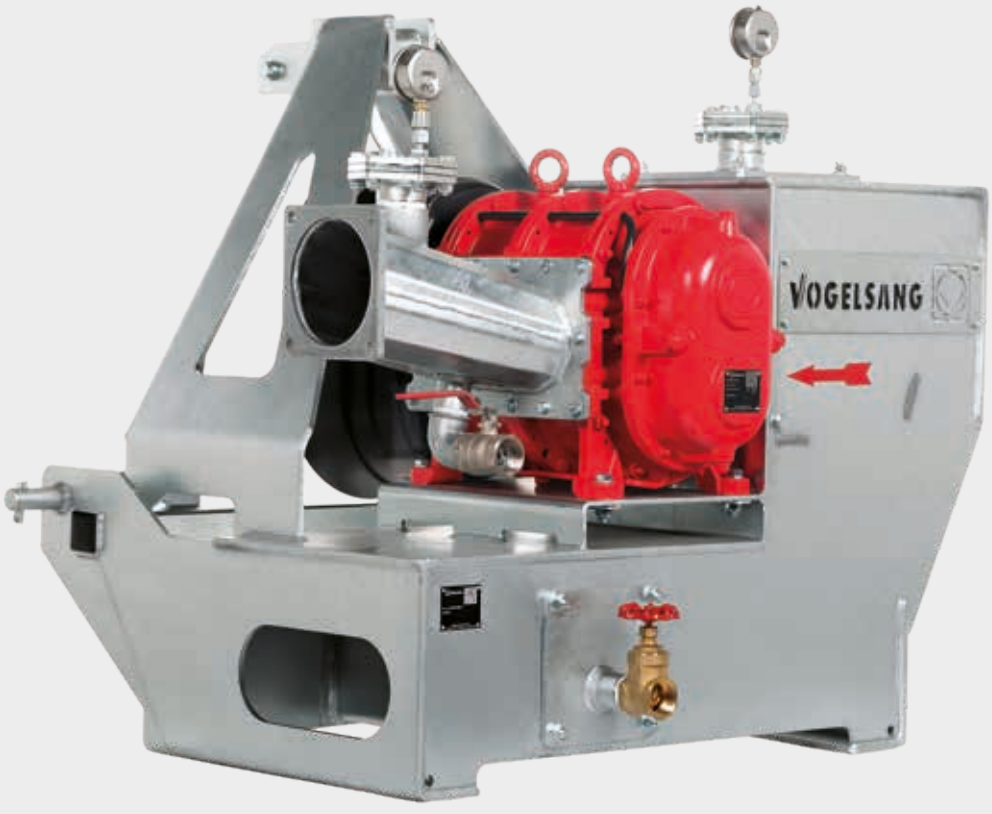
SPECIFICATIONS

Type	Stroke vol.	Max. pressure	Max. capacity*		Max. speed
	l	bar	l/min	m^3/h	min^{-1}
R116 series					
60	1.16	5	750	45	650
120	2.32	5	1,500	90	650
180	3.48	5	2,250	135	650
240	4.64	5	3,000	180	650
300	5.80	4	3,800	225	650
360	6.96	3	4,500	270	650
R136 series					
70	1.25	5	800	45	650
105	1.90	5	1,200	70	650
140	2.53	5	1,650	90	650
210	3.80	5	2,500	140	650
350	6.33	5	4,100	230	650
420	7.59	5	5,000	280	650

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

* Maximum, theoretical capacity. 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 design software.





R series in combination
with foreign matter separator



FX series



Making the basics better

The FX series makes everyday life easier and reduces operating costs

The FX series at a glance
- Different capacity levels
- Up to 4,500 l/min.
- Pressures up to 8 bar

The FX series by Vogelsang was developed specially for the needs of farmers. It fulfills the special requirements of slurry as the medium, is easy to operate and is highly economical in operation thanks to its quality and ease of maintenance. As a professional slurry pump without torque boost, it offers a max. performance of 8 bar and a max. 4,500 l/min.

Lubrication no longer necessary
Sometimes it's the little things that make a pump part of the FX series: Vogelsang eliminates lubrication from your list of jobs. Simple and effective oil circulation lubrication means that all gaskets are constantly lubricated and the grease gun remains on the shelf.



Advantages of the FX series

- Block ring seal
- Axial wear plates made from highly wear-resistant special steel
- Rotating separation plate – low energy consumption
- Circulating oil lubrication – no follow-up lubrication of the pump

Pump slurry professionally without increasing torque
Slurry contains a lot of fibrous material that gathers in gaps and cavities and can increase the torque. This increases wear, wastes pumping power and ultimately energy. The FX series rotates the separation plate with the pistons: one less fiber trap, combined with greater pump power and lower diesel or electricity consumption.

Block ring seals for longer pumping times and reduced service times
Mechanical seals are significantly more durable than radial shaft seals. The FX series uses Vogelsang's specially developed block ring variant of the mechanical seal. The special block increases the pump's resistance to fibers in the slurry even further.

FX series rotary lobes
Depending on the medium, Vogelsang offers the FX series with different elastomer compounds as a coating for the rotary lobe cores, e.g., NBR or FKM.

FX series drive types
- Cardan shaft
- Hydraulic motor
- Electric motor
- Combustion motor

SPECIFICATIONS

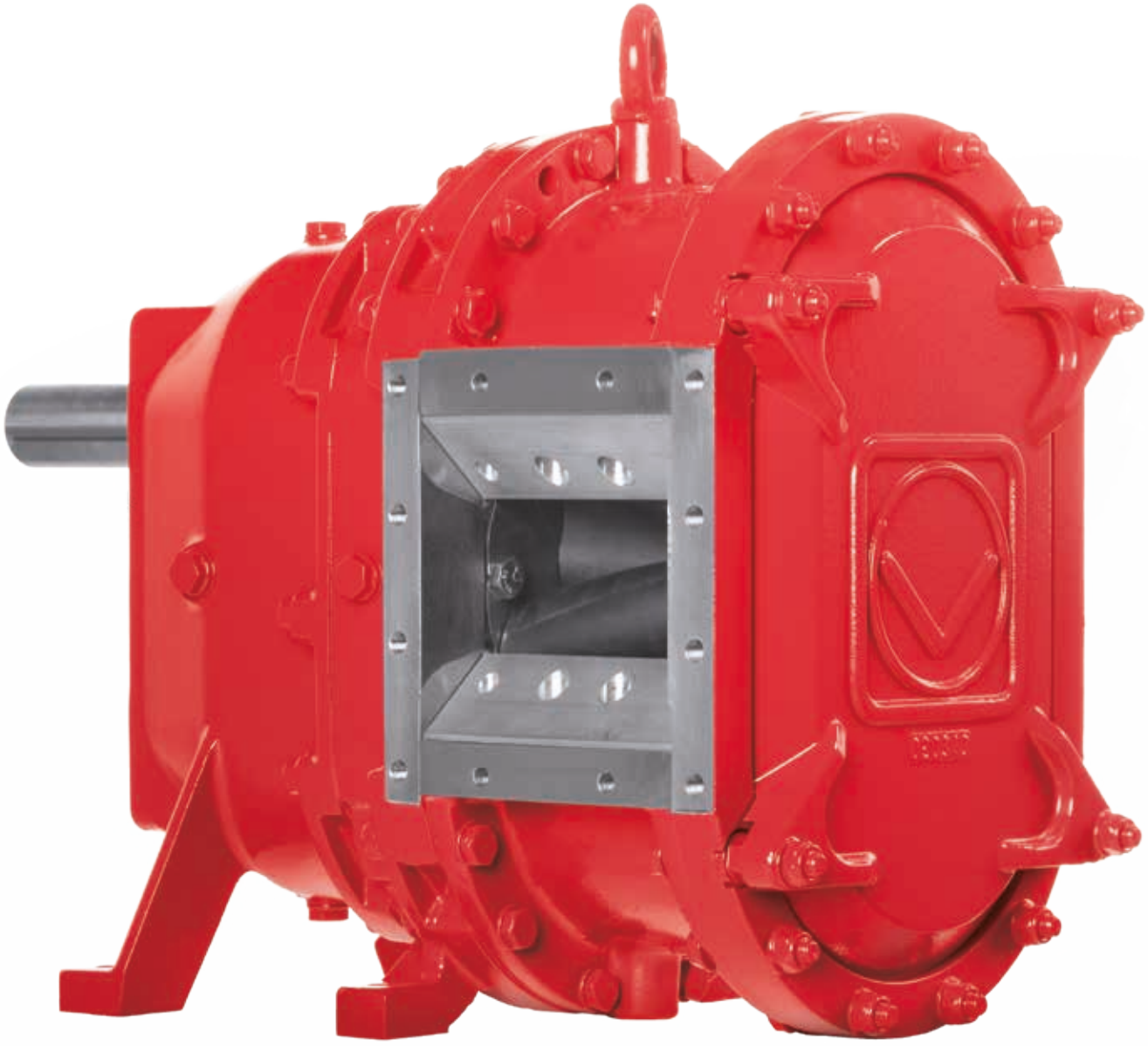
Type	Stroke vol.	Max. pressure	Max. capacity*		Max. speed
	l	bar	l/min	m^3/h	min^{-1}
FX116-60	1.16	8	750	45	650
FX116-120	2.32	7	1,500	90	650
FX116-180	3.48	6	2,250	135	650
FX116-240	4.64	5	3,000	180	650
FX116-300	5.80	4	3,800	225	650
FX116-360	6.96	3	4,500	270	650

* Maximum, theoretical capacity. 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 design software.











Simply more economically built

The VX series for longer runtimes, quick maintenance and high levels of operational safety

The VX series at a glance

- 5 different series with up to 8 different capacity levels
- Up to 23,600 l/min.
- Pressures up to 12 bar

With pumping outputs of up to 12 bar and up to 23,600 l/min., VX series rotary lobe pumps provide effective support for any size of tank with maximum performance. Based on requirements, there is a large selection of models, lobe types, materials and protective coatings available for the VX series. Everything is designed to increase operational safety in the tank and to lengthen the service life. To do this, the VX series combines high-end pump technology with compact dimensions.

VX series rotary lobe pumps from Vogelsang are used in any applications requiring compact, self-priming pump technology that is resistant to dry running, which demand high ease of maintenance. A range of technical innovations provide low downtimes, minimize operating costs and The VX series ensure quick-and-easy maintenance.



Advantages of the VX series

- Comprehensive range of technical details and options
- Quick access to the pump chamber by removing the cover
- Self-priming
- Resistant to foreign matter
- Pulsation-free pumping

The types

Q – QuickService pumps: On one side, dual cantilever bearings; on the other, quick-and-easy access to the pump chamber. All wetted parts can be replaced without removing the pump on-site. That makes for short down-times.

QD – QuickService pumps with third bearings : In the unique QD design, an additional, third support bearing provides extra stability and extremely low shaft deflection, resulting in minimum start-up wear. This increases the service life significantly and provides full QuickService functionality.

The drive types

- Geared motor
- Cardan shaft/manual gearbox
- Hydraulic motor
- Combustion motor

The lobes

We have developed special compounds for the elastomer that surrounds the lobe core in our rotary lobe pumps. They make it possible to tailor every pump to the specific medium and guarantee extra durability. We have a range of options available for lobes in the VX series, e.g., NBR or FKM. If the focus is on high volumetric efficiency and pulsation-free running, the patented HiFlo lobes are the ideal choice. Constant pumping and more sealing lines allow high pressures and drawing of fluid from deep pits.

SPECIFICATIONS

Type	Stroke vol.	Max. pressure		Max. capacity*		Max. speed	Max. shaft deflection	
	l	Q bar	QD bar	m^3/h	l/min	min^{-1}	Q mm/bar	QD mm/bar
VX136 series								
70	1.27	10	12	61	1,010	800	0.01	0.002
105	1.90	10	12	91	1,520	800	0.03	0.004
140	2.53	8	12	121	2,020	800	0.05	0.007
210	3.80	5	10	182	3,040	800	0.16	0.016
280	5.06		8	243	4,040	800		0.031
420	7.59		6	364	6,070	800		0.090
VX186 series								
92	3.56	10		128	2,130	600	0.01	
130	5.03	10	12	181	3,010	600	0.02	0.003
184	7.12	8	12	256	4,270	600	0.05	0.008
260	10.06	5	10	362	6,030	600	0.12	0.012
368	14.24	2 (3**)	8	513	9,000	630	0.33	0.028
390	15.09	2 (3**)	7	543	9,050	600	0.40	0.028
520	20.12		6	724	12,070	600		0.065
736	28.48		3	1.025	17,080	600		0.191
VX215 series								
226	15.47	5	8	501	8,350	540	0.10	0.010
320	21.88	2.5	7	708	11,810	540	0.29	0.026
452	30.94		5	1.002	16,700	540		0.029
640	43.76		3	1.417	23,630	540		0.073

* Maximum, theoretical capacity. 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 design software. ** Not for permanent operation.



Work easier – safely

Innovative techniques for maximum safety and long service lives with high serviceability at the same time

InjectionSystem

Only rotary lobe pumps from Vogelsang offer a way of significantly extending the service life of the lobes in your rotary lobe pump, thanks to our patented InjectionSystem. Field trials prove that it can extend pump lifetime by as much as 2.5 times.

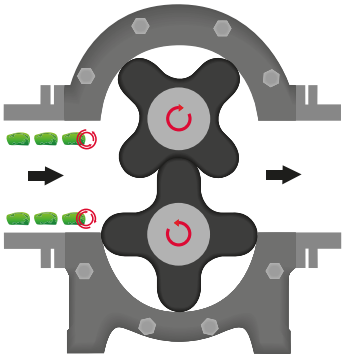
The principle is ingeniously simple. It prevents damage to the lobe tips by disruptive matter, as the innovative geometry of the housing facilitates problem-free flow through the pump. The internal sealing of the pump is also improved. That increases not only its efficiency, but also its suction capacity.

We offer you the following equipment variants

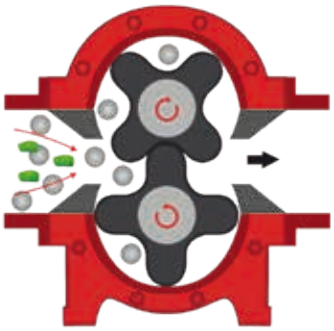
- Injection S offers symmetrical protection for clockwise and counterclockwise rotation.
- Injection A offers asymmetrical protection for clockwise or counterclockwise rotation.

The advantages at a glance

- Significantly improved foreign matter resistance Increased efficiency and improved suction capacity through optimized volumetric efficiency
- Significantly extended service life – up to 2.5 times longer in field trials



Rotary lobe pump in conventional design



Rotary lobe pump with InjectionSystem

Quality Cartridge mechanical seal

Professional sealing technology for maximum reliability

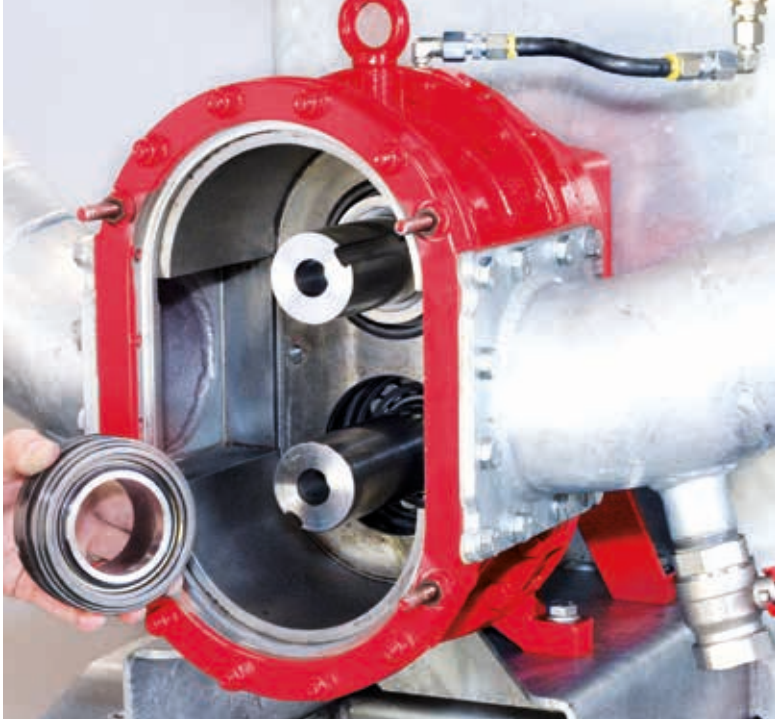
A pump seal that can be replaced in just one single step, significantly simplifying maintenance while also lowering the risk of transmission damage? This is a reality with the Quality Cartridge mechanical seal from Vogelsang. This mechanical seal in a cartridge design is completely preassembled. It represents the highest factory-tested safety standard, runs with minimal problems and installs quickly. Thanks to its unique construction, it incorporates all seal components, thus allowing reliable replacement of all the sealing elements when the gasket is changed – including the gasket between the gearbox and the buffer chamber. The Quality Cartridge mechanical seal is also highly user-friendly. It is preassembled for quick-and-easy replacement on-site, without the need for any expensive special tools.

The advantages at a glance:

- Quick-and-easy change of seal: installation errors are prevented
- Installation takes less time than when changing conventional seals

Cartridge mechanical seal repair

We offer optional repair of the Quality Cartridge mechanical seal. Use our complete spare parts kit and the installation tool to repair the mechanical seal yourself in a very short time. With this variant, you can keep your repair costs down.



Quality-Cartridge mechanical seal

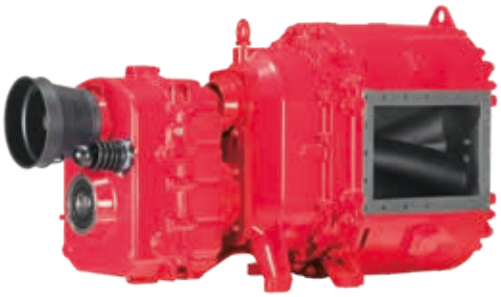


Rotary lobe pump with InjectionSystem



Optional extra for the VX series

Pumps with manual gearbox
Vogelsang rotary lobe pumps with a connected three-speed gearbox make it possible to achieve different delivery rates almost independently of the motor speed. The gearbox also enables you to quickly fill the tank when idling and to optimally set the spreading capacity to the desired level during travel. The pump's gears can be shifted conveniently from the tractor cabin.



A pump for three different drive types
The Vogelsang Universal Drive System (UDS) allows the same Vogelsang VX rotary lobe pump to be operated with a number of different types of drive. This is done by combining a pump from the VX series with a special shaft and drive adapter. This means it can be operated flexibly with a Cardan shaft, gearbox or hydraulic motor, depending on current requirements and the location of use.



Monitored flow rate for precise spreading
By integrating a speed sensor, the flow rate can be precisely monitored during slurry spreading and the spreading quantity regulated as required on the basis of the speed measurements. Vogelsang offers this sensor in two variants:

Speed sensor in conjunction with UDS



Variant A with UDS: The speed sensor works in conjunction with the UDS. It is installed in the drive adapter and measures the speed on the adapter teeth.

Variant B without UDS: Screwed directly into the gearbox, the sensor measures the speed regardless of the drive type.



Speed sensor in gearbox



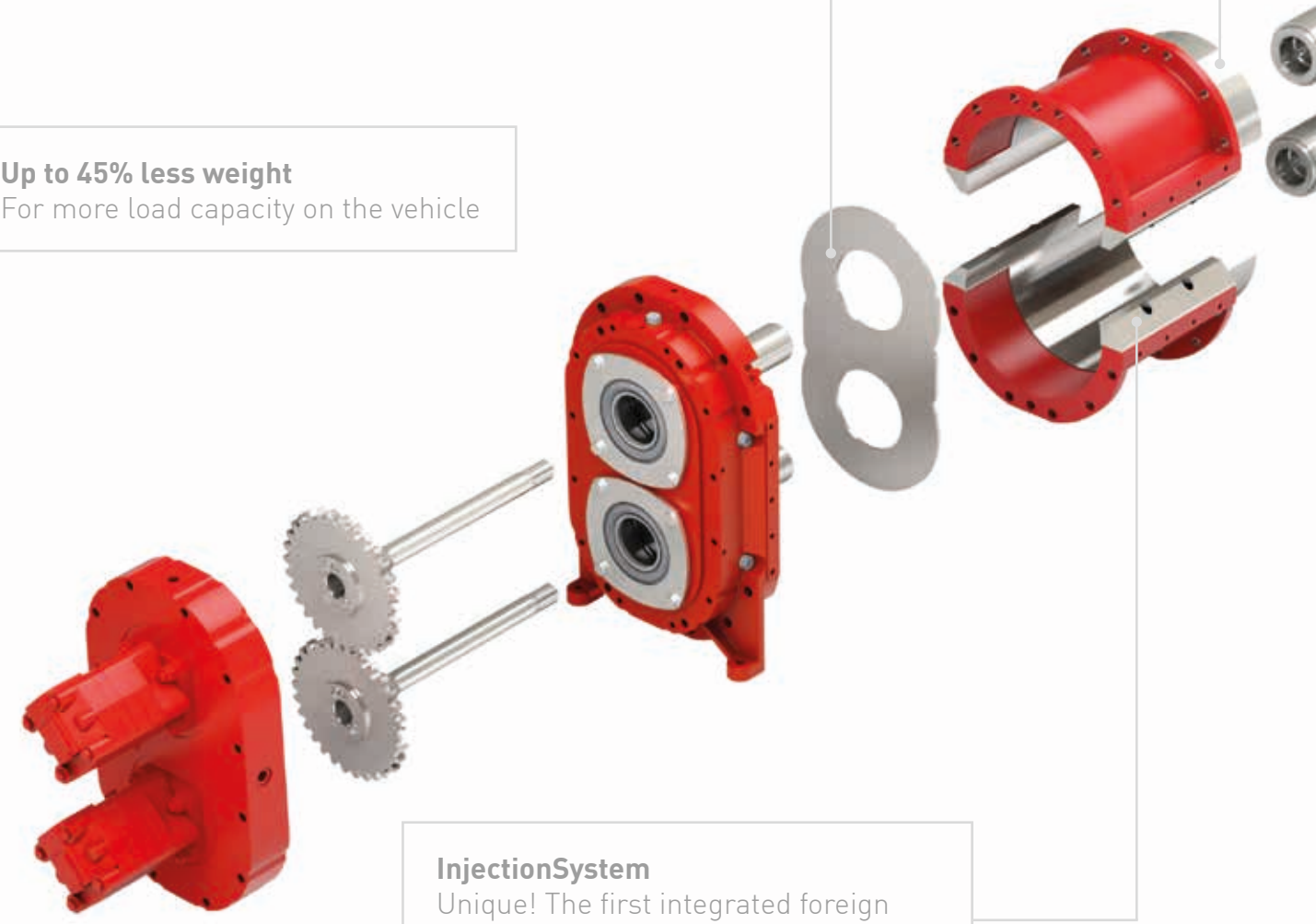
Focused on performance

Pumping made easy with the LoadMaster from Vogelsang

Space savings of up to 28%
20 cm shorter overall length

Sophisticated wear plate geometry
Seal service life up to 4 times longer

Up to 45% less weight
For more load capacity on the vehicle



InjectionSystem
Unique! The first integrated foreign matter protection for rotary lobe pumps, paired with higher self-sealing

Axial and radial wear plates
Lined pump housing made of highly wear-resistant special steel to extend service life and increase maintainability



HiFlo lobes
Pulsation-free pumping for very smooth running

Quality Cartridge
Professional sealing technology for maximum reliability



Even easier to service

The new synchronisation disks of the LoadMaster pump optimize service work. For example, the lobes are lighter and can also be installed singularly, as no fitting keys are required.



Advantages of the LoadMaster

Weight saving of up to 45 %

- Up to 140 kg weight saving compared to standard VX series models
- Up to 176 kg weight saving compared to similar models with hydraulic motors

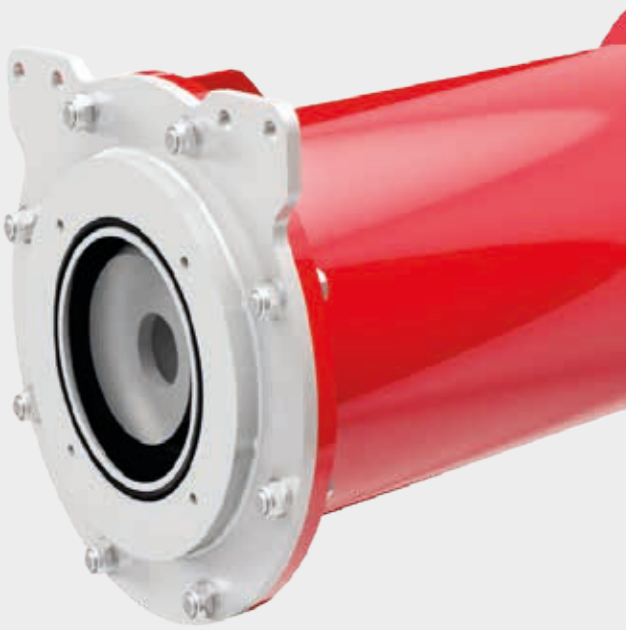
Space saving of approx. 28%

- Up to 20 cm shorter overall length compared to standard VX series models
- Lower power consumption
- Even more service-friendly
- Unmatched smooth running

Perfect addition to the pump portfolio

The ProCap T progressive cavity pump for tankers





With the ProCap T progressive cavity pump, farmers who prefer this type of pump for spreading slurry can finally benefit from the reliability of Vogelsang products.

The compact pump is based on the same intelligent modular system as the larger floor-standing units – with complete or individual replacement of the stators and rotors. In addition to the robust internal workings, the fully welded housing ensures longer tool life and longer service life.

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 greater stability
- Optional: Reduction gear with low shaft misalignment

SPECIFICATIONS

Series / type	ProCap T4250	ProCap T6000
Displacement	7.87 l/min	11.11 l/min
Maximum delivery rate	4,250 l	6,000 l
Max. pressure	6 bar	6 bar
Max. speed	540 rpm	540 rpm
Inlet connection sizes	3 x 200 DN, square	3 x 200 DN, square
Outlet connection sizes	1 x 200 DN, square	1 x 200 DN, square

Advantages of the ProCap T

- More compact installation dimensions compared to previous progressive cavity pumps
- Intelligent modular system for low spare parts inventory and greater flexibility
- Fully welded housing and large free passage for maximum durability
- Low-wear pumping thanks to high resistance to foreign bodies



RotaCut

Shredding technology with foreign matter protection

The powerful RotaCut® for cost-effective slurry treatment

The more flowable and homogeneous the slurry and digestates are, the more effectively they can be used as organic fertilizers. The RotaCut by Vogelsang shreds all the coarse and fibrous matter in the slurry. In addition, it provides effective protection against foreign matter and heavy material. On a slurry transport vehicle, RotaCut provides reliable protection for the pump system and ensures a homogeneous and easily metered slurry suspension.

The principle

The continuously flowing medium passes first through the separator and is then fed to the cutter. Foreign objects (stones, metal parts, etc.) are separated out based on their size or weight and can be easily disposed of later via a cleaning port. Floating and suspended substances within the medium (fibers, hair, bones, wood, etc.) are transported to the cutting screen by the liquid current and shredded by rotating, self-sharpening cutting blades.

The function scheme of RotaCut®



Advantages of the RotaCut®

- Efficient cutting performance
- High separation effect
- Simple maintenance and repair
- Wide range of series up to 12,000 l/min. throughput
- ACC for automatic adjustment of the cutting blades

Functions
- Separating out foreign matter
- Cutting
- Homogenization

Constant performance, long service life
Automatic Cut Control (ACC) by Vogelsang automatically adjusts the cutting blades in the RotaCut. This keeps the necessary contact pressure between the cutting blade and the cutting screen constant at all times, and the cutting performances at a constant high level. Manual maintenance is no longer necessary. The contact pressure can also be externally adapted to suit the medium during operation. For more information on ACC, see page 32.

Especially for vehicles: Vogelsang RotaCut® MXL
The RotaCut MXL is the ideal solution for special requirements in the field of vehicle construction. It cuts fibers just as reliably as it separates heavy material, and can be easily installed on a vehicle. Its large opening provides easy access for service and maintenance, and heavy material is easy to remove.

Higher yields for biogas plant operators
If substrates reach the digester well macerated and mashed, the gas yield increases significantly and the strain on the mixer is greatly reduced. Vogelsang offers energy-producing farmers a complete range of special RotaCut models for shredding, including the corresponding feeding systems.

For more, see our BIOGAS brochures or contact us directly. We would be happy to show you how you can optimize the substrate feeding process with a RotaCut.





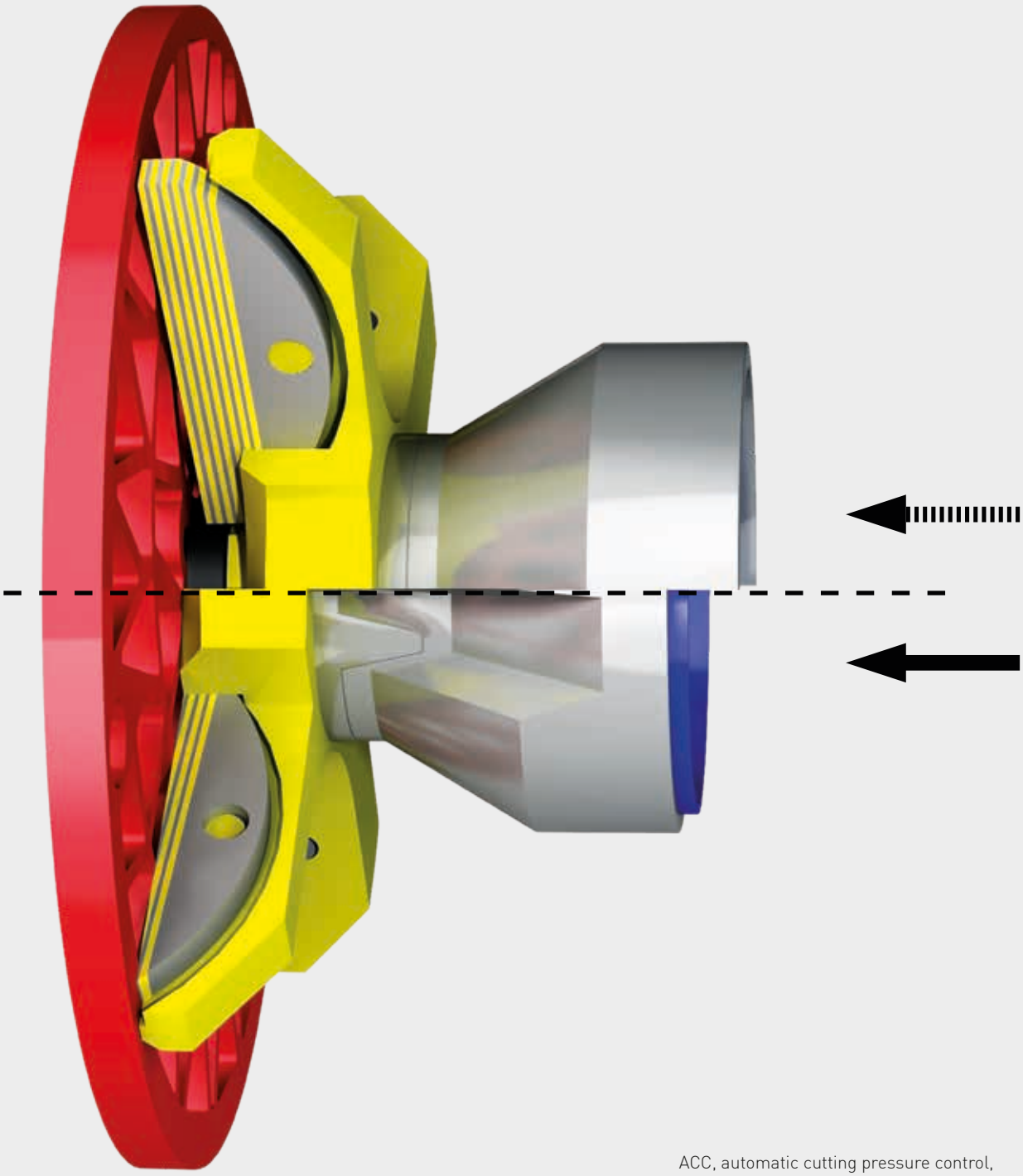
Vogelsang uses its proprietary software to calculate the optimized geometry for every size-reduction ratio. For you this means: the best geometry at all times for smooth running, with minimal wear. The cutting screens are produced from wear-resistant special steel and are reversible.

SPECIFICATIONS

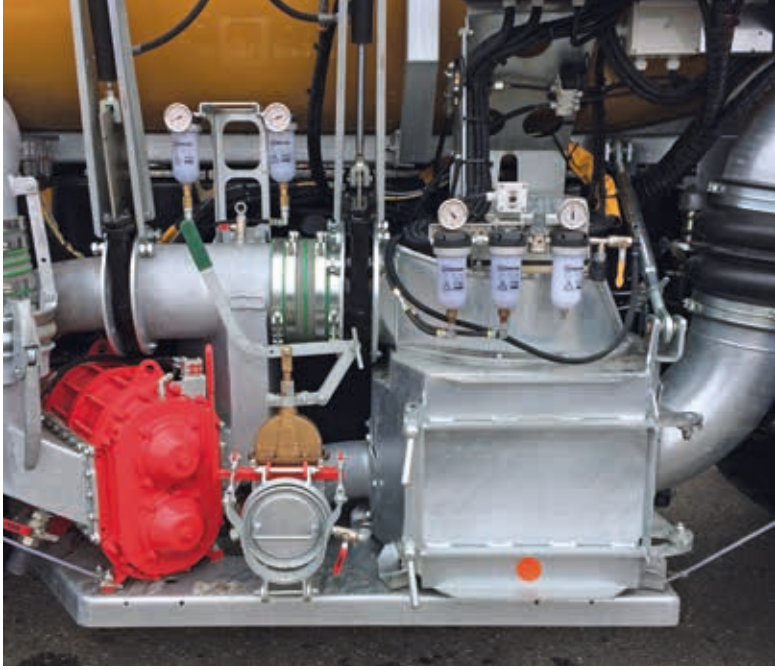
Type		RCQ - 20	RC3000	RC5000	RC10000	RCX - 48	RCX - 58
Maximum flow rate	m^3/h	90	180	300	600	600	750
Geared motor Optional speed Optional motor output	min^{-1} kW	87 - 320 1.1 - 2.2	76 - 326 1.5 - 4	66 - 330 1.5 - 7.5	66 - 319 2.2 - 7.5	114 - 311 5.5 - 11	94 - 276 7.5 - 15
Hydraulic motor Required oil pressure Required oil quantity	bar l/m		50 - 70 40	60 - 80 45	70 - 100 60		180 - 230 75
Model type overview		Inline - - - -	Inline - MXL - -	Inline - MXL M/MX Compact XL	Inline - MXL - Compact XL	- RCX - - -	- RCX - MXL -
Cutting screen with available free passage	mm	10 | 15 | 20	8 | 10 | 12 15 | 20 | 28	4 | 8 | 10 | 12 15 | 24 | 30	4 | 8 | 10 | 12 | 16 20 | 25 | 34 | 38	4 | 8 | 10 | 12 | 16 20 | 25 | 34 | 38	8 | 12 | 16 25 | 34


VOGELSANG


VOGELSANG



ACC, automatic cutting pressure control, ensures that this pressure remains even at all times so you never have to worry about it.





Basis for efficient shredding

ACC, the automatic cutting pressure control, constantly ensures optimal contact pressure

ACC – Automatic Cut Control
The RotaCut is a macerator that uses direct contact between the cutting blades and the cutting screen. It reliably macerates long-fibered materials such as straw or hay in media.

The automatic control unit reduces wear and tear
ACC adjusts the contact pressure between the cutting blades and cutting screen to a level as high as is necessary and as low as is possible. This considerably prolongs the service life of the cutting blades in an automated fashion, as opposed to a manual blade adjustment. As a result, ACC is a reliable basis for increased efficiency and ensures consistent cutting performance for the life cycle of the wear parts.

Advantages of the ACC

- No manual cutting blade adjustment required; fully automatic, uninterrupted operation
- Contact pressure can be readily adjusted to the medium without interrupting operation
- Low operating costs thanks to minimum wear andlow current consumption
- Optimal results due to consistently high cutting performance and constant size-reduction ratio

Fast filling made easy

Complete filling of vacuum tanks with the PowerFill



PowerFill



Simple and efficient

The tanker is filled quickly. Thanks to the PowerFill, the full utilization of the transport volume is ensured by complete filling.

Vacuum tanks can be filled up to 30 % faster using a PowerFill-series turbo filler from Vogelsang – and with significantly less foam formation than with conventional fillers. This enables farmers to fully fill their tankers quickly and efficiently, resulting in decisive time-savings. This is thanks to the comparatively low speed of the PowerFill pumps. At the same time, the pumping process ensures homogenization of the slurry before distribution, leading to even more spreading.

The PowerFill is available in three different performance categories. With the PowerFill Small the Vogelsang developershave succeeded in incorporating all of these advantageous characteristics into a turbo filler with 40 % less weight and extremely compact dimensions. The PowerFill Small is available with two different drive variants. Both are designed to be flow-optimized for higher volume flow. The more powerful drive achieves a volume flow of up to 12,000 l/min.

Advantages of the PowerFill

- 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 slurry spreading due to homogenization
- Easy to retrofit
- Surprising performance despite an even more compact design
- High volume flow thanks to optimized engineering



PowerFill Small for complete filling

SPECIFICATIONS

	PowerFill			PowerFill S (Small)	
Type designation	**PowerFill with OMR 100**	**PowerFill with OMS 100**	**PowerFill with SCM 084**	**PowerFill S with OMS 100**	**PowerFill S with SCM 084**
Motor type: Hydraulic motor	OMR 100	OMS 100	SCM 084	OMS 100	SCM 084
Speed	600 rpm	750 rpm	1,000 rpm	750 rpm	1,000 rpm
Operating pressure	140 - 160 bar	140 - 160 bar	200 - 350 bar	140 - 160 bar	200 - 350 bar
Hydraulic capacity of tractor	Min. 55 l/min	Min. 65 l/min	Min. 65 l/min	Min. 65 l/min	Min. 65 l/min
Max. quantity delivered	70 l/min	85 l/min	90 l/min	85 l/min	90 l/min
Optimal quantity delivered	60 l/min	75 l/min	85 l/min	75 l/min	85 l/min
Connector flanges	6", 150 DN	8", 200 DN	8", 200 DN	8", 200 DN	8", 200 DN



FillMaster M







Filling rapidly and safely

FillMaster – Powerful filling stations for convenient and quick filling of tankers everywhere

FillMaster S
The stationary FillMaster S enables convenient and quick filling of tankers from containers or digesters. There is no need for the complex, time-consuming coupling and uncoupling of hoses. The filling connector with double telescope can be lowered manually or electrically (optional). In this way, any tank can be filled quickly via the dome. FillMaster S can be equipped with a convenient wireless remote control or a wired remote control on request. Depending on the application, capacities of up to 11,000 l/min can be achieved. It can be equipped with a rotary lobe pump from the VX series or a PowerFill. Various drive concepts are available.

Further developed: FillMaster M
The mobile FillMaster M with three-point fixture can be transported by a tractor. Its centerpiece is a rotary lobe pump from the VX series, driven by the cardan shaft.

The FillMaster M is available in three basic versions with either a 6,000 or 9,000 l/min pump:

- VX rotary lobe pump with RotaCut cutter
- VX rotary lobe pump with riser pipe with boom
- VX rotary lobe pump with RotaCut cutter and riser pipe with boom

Analog pressure monitoring and the integration of the RotaCut MXL with Automatic Cut Control (ACC) are optional.

Vogelsang VX pumps for the FillMaster

The VX186 - 260Q and - 368Q rotary lobe pumps from the VX series are permissible for the FillMaster S and M.

For specifications on the capacity, see page 18.

Advantages of the FillMaster M

- Very user-friendly tank filling station
- Customized solution for each application
- High maintainability
- Easy retrofitting of further options possible (e.g. riser pipe with boom)

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 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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