Rotary lobe pumps
for application in the petrochemical and oil-refining industry
Safe, robust and reliable

Vogelsang rotary lobe pumps satisfy the stringent requirements of the mineral oil and petrochemical industry.

Oil depot
Vogelsang has the perfect solution for transfer and reverse operations, e.g. the filling of tanks, vehicles and ships. Even highly viscous media can be reliably pumped. In addition to their compact and service-friendly construction, our pumps feature reversible direction of flow and have self priming capabilities up to 8 m suction lift. This combination of characteristics provides a variety of application options for oil depots.

Waste oil
Waste oil is often contaminated with foreign matter, which imposes particular requirements on pumps. Thanks to their robust design, reliability and resistance to foreign matter, Vogelsang pumps are well suited for pumping waste oil. As a result of the pumps’ QuickService design, wearing parts that are exposed to particularly high levels of stress can be quickly replaced on-site, without any problems.

Tank cleaning
Layers of sediment build up at the base of the tank over time, which reduces the tank’s storage capacity and can lead to corrosion. For this reason, it is particularly important for the contents of the tank to be continuously pumped away. Thanks to the dry-running resistance of Vogelsang pumps, this can be achieved without any trouble. Whether you require a submersible pump or installation outside the tank, Vogelsang has the appropriate solution for cleaning and emptying tanks.
Bunker ships
Because ships have a limited amount of space on board, space-saving and service-friendly construction are essential. Vogelsang pumps completely satisfy these requirements and can also be easily retrofitted. Furthermore, ideal loading and unloading of the pumps is possible thanks to their reversible direction of flow. Vogelsang rotary lobe pumps are extremely energy efficient reducing cost and on-board installations to a minimum.

Refinery
Ideal for pumping a wide variety of petrochemical products such as crude oil, heavy oil, light oil, heating oil, kerosine, petroleum, biodiesel, ethanol and methanol. Whether you are working with highly viscous media, or media that require a gentle pumping action, we have a suitable rotary lobe pump that can be integrated into your refining processes. Vogelsang pumps also meet the requirements stipulated in the European Explosion Protection Directive ATEX 94/9/EC.

Tank vehicles
Tank vehicles require compact, maintenance friendly and high capacity pumps that can be installed in the tightest spaces. Thanks to their compact construction and high capacity, Vogelsang pumps are ideal for vehicle construction applications. The reversible direction of flow enables the vehicle to be loaded and unloaded with a single pump. The Vogelsang pump can be driven by a hydraulic motor, which is powered by the vehicle.
When it comes to pumping mineral oil products, there is nothing more important than well-engineered, reliable and efficient pumping technology. These are the characteristics of Vogelsang’s innovative rotary lobe pumps and why they are preferred products in this area. A long life and maintenance-free operation also make these pumps incredibly cost effective to operate.

**Highly versatile**
There are virtually no limits when it comes to the application of a Vogelsang pump; for example, you can pump acids, as well as media that react sensitively to shear forces or that have a high solids content. Vogelsang rotary lobe pumps can pump anything that flows.

**The Principle**
Vogelsang pumps are equipped with elastomer-coated rotary lobes. As non-contacting, rotating positive displacement pumps, they are extremely versatile and easily implemented. Thanks to their pulsation-free running HiFlo®-rotary lobes, speed proportional delivery rate and high resistance to both foreign matter and dry-running, Vogelsang pumps frequently provide the best solution for different pumping tasks.

**Quick and low-cost maintenance**
The QuickService design of the Vogelsang pumps enables quick and low-cost maintenance to be carried out directly on site.

**Mobile and flexible**
As a result of their superior performance and compact construction, Vogelsang pumps lend themselves well to the field of vehicle manufacturing. Mobile pump units from Vogelsang represent the epitome of on-site safety and independence.

**Compact and space-saving**
Vogelsang pumps can be integrated into any system. The service-friendly design provides a variety of application possibilities and enables installation in the tightest spaces. Thanks to their convenient construction, subsequent installation can be typically realized without any problems.

**Cartridge seal**
The complete pre-installed unit comprises all components. Special variants for the chemical and petrochemical industry are also available.

**InjectionSystem**
The innovative InjectionSystem enables foreign matter to be injected directly into the opening pump chambers. This prevents collisions with the lobe tips. The internal sealing of the pump is also increased.

**Advantages of Vogelsang pumps at a glance**
- compact design
- self-priming and dry-running resistant
- resistance to foreign matter thanks to the innovative InjectionSystem
- reversible direction of flow
- pulsation-free running HiFlo-rotary lobes
- high efficiency
- service and maintenance friendly
- minimal downtimes
- high availability
Break-proof shafts:
They have a large diameter and no cranks. We provide a five-year guarantee* against internal shaft breakage for all pumps in the V/VX series.
*Under the normal conditions of use in accordance with our terms of guarantee

HiFlo-rotary lobes:
Pulsation-free pumping prolongs the service life of the drive and coupling. The pumping speed is also improved thanks to reduced cavitation. A higher capacity is realized as a result of the increased speed limitations.

QuickService:
The rotary lobes, seal, face side and radial wearing parts can be replaced on-site without dismantling the pump. This saves money and ensures maximum system availability.

Cartridge seal:
Developed and patented by Vogelsang, the complete pre-installed unit includes all components. It is checked at the factory and is automatically activated.

Adjustable pump housing segments:
It is possible to compensate for the wear on the pump housing segments without using additional parts. Advantage: optimum utilization of the material and extension of the service life.

Advantages of the QuickService design at a glance
- direct on-site service without dismantling the pump
- optimum access to all wearing parts
- reduced time requirements and workload
- reduced costs for service and maintenance

Advantages of the cartridge seal at a glance
- change of seal without dismantling the pump
- one component: seal can be changed quickly and safely
- high level of operational safety
- high availability
- seal is checked thoroughly at the factory and is activated automatically
- lower operating costs in comparison to multiple component seals
Oil industry | Rotary lobe pump

Innovative design for the safe pumping of mineral oil products

**Control technology**
Progressive control technology is used to significantly increase the performance and efficiency of our rotary lobe pumps. Pressure, current consumption and speeds (optional) are constantly monitored and the correlations between them are intelligently linked. The performance control unit (PCU) is then able to automatically register the load and ensures that the pump is operated in the optimum range, using appropriately defined control interventions.

**Certified by the Physikalisch-Technische Bundesanstalt, (German national metrology institute)**
Thanks to its unique construction, the pump prevents the propagation of deflagrations and detonations in the tank, thereby negating the need for additional flame arresters in the filling and drain pipes.

**Drives**
A selection of diesel, hydraulic and electric motors are available in different versions — driven by a geared motor or compact belt drive with articulated electric motor. All pumps can be designed so the control functions occur via a variable-frequency drive, which ensures optimal operation at all times.

**Special designs**
Upon request, we can develop special designs to meet your specific requirements:
- multi-chamber pumps
- two-stage pumps
- combination drives
- pumps with integrated cutting unit

**Quality management**
Quality control is a matter of fact at Vogelsang. No pump leaves the factory without being thoroughly checked. In line with the principle “He who stops being better, stops being good”, we document our quality management with a certification in accordance with DIN EN ISO 9001:2000.

**Rotary lobes and elastomers**
The elastomer coating of the rotary lobe is inseparably joined with the lobe during a vulcanization process. Vogelsang provides the suitable rotary lobe for every type of medium. Below are a few examples of the available elastomers or lobe materials:
- NBR • HNBR • SBR • EPDM • CSM
- Steel • Stainless steel • POM
- AFLAS • FKM • Werobust®

**Series**
The VX rotary lobe pumps from Vogelsang are available in four series. Each individual pump is configured according your requirements and specific application. The interior coating, lobe material and drive type can be customized according to your needs.
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<th>Nominal delivery rate</th>
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Our company
Innovation and progress have been hallmarks of Vogelsang for over 80 years and have made us a leading global plant engineering company. Time and time again we have achieved significant milestones of progress. Today, we develop, manufacture and distribute some of the most innovative and reliable machines and systems for agriculture, municipalities and industry.

With our overseas subsidiaries and service centers, we are world-renowned for advanced engineering and customer-friendly solutions.

Our product range
We offer solutions for the following areas:
• Industrial sector
• Waste water treatment
• Biogas
• Railway waste water disposal
• Agriculture

We offer a broad range of products:
• Rotary lobe pumps
• Maceration technology
• Distributors
• Spreading technology
• Supply and disposal systems
• Complete solutions

We also offer customized solutions for your specialized applications.

How to reach us
Vogelsang is present worldwide. Visit us online for more information about our company and wide range of services:

vogelsang.info

We are here to assist you and look forward to speaking with you.