



PUMPING SYSTEMS DESIGNED FOR OIL & GAS APPLICATIONS

# Oil & Gas Industry

Robust Pumps that Handle Viscous Liquids



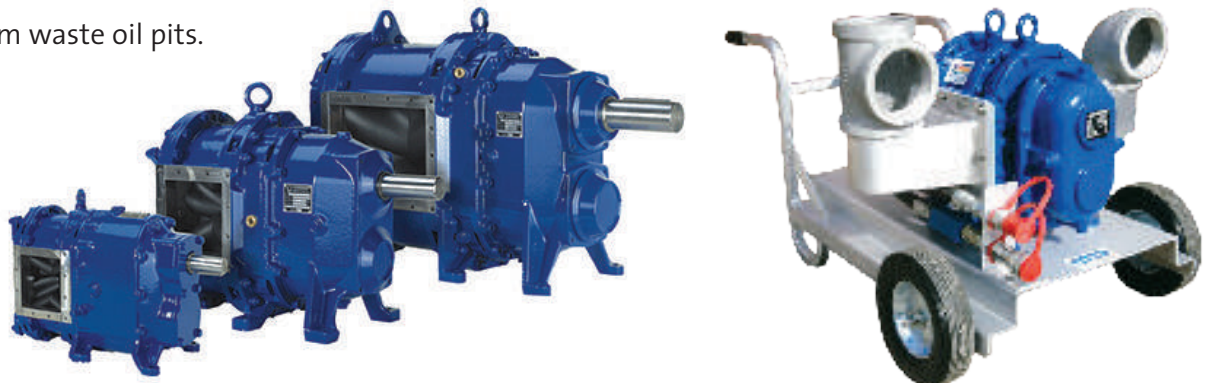


HIGH PERFORMANCE

## High Solids, Heavy Grit, Drilling Mud & Abrasives

The unique internal geometry of the Vogelsang Rotary Lobe design ensures a gentle pumping action that will not emulsify oily water, and ensures the efficient movement of material through the unit.

The pump can also handle solids up to 2.5" in diameter, and should the pump become clogged, it can be easily reversed to remove the blockage. The Vogelsang Rotary Lobe Pumps contain impressive features making it well-suited to many applications, including transfer pump for heavy crude, bunker oil, or bitumen. Drilling mud and centrifuge feed are perfect applications as well as tank cleaning, pipeline maintenance, tanker trucks and sludge removal from waste oil pits.





### **Cutting Edge Materials**

Every application of our products has the ideal materials to optimize capacity and minimize wear. Wherever there is contact or friction between moving parts, we have developed combinations of materials that will optimize the equipment for your specific needs. This benefits you both in equipment life and in product quality. Our lobe and casing materials come in many different materials to get you the best possible life from the pump.

### **Quality Custom Construction**

Our production team will configure your equipment to the appropriate size and application for your application, whether it be a belt driven pump to fit tight installation areas, or a fixed pump for specific applications. Our pumps are available in many sizes and capacities that will suit mining application requirements. We offer the highest standard of construction and materials to ensure you get the most equipment life possible. The versatility of our products make it possible to configure them for tight areas with limited accessibility. Our pumps are smaller and lighter than traditional pumps of the same capacity. This makes it possible to get them into areas where other simply won't fit.

### **Customer Service**

Our relationship doesn't end with the sale. Expect quick and expert advice about our products once they're in place. When you need service or maintenance, we'll be there on time to get the job done right.

When the Deepwater Horizon oil spill occurred, Vogelsang was the first to respond, delivering over 700 pumps in less than 6 weeks. No other manufacture can equip your company faster than us.

Vogelsang is ISO 9001:2008 registered and our pumps are built and tested in our Ravenna, Ohio manufacturing facility. New pumps are built to order quickly and spare parts are typically shipped the same day.



IT'S ALL ABOUT THE LOBES

## Pulsation Free, Wet-End Rebuilds In-line, Variable Pressure

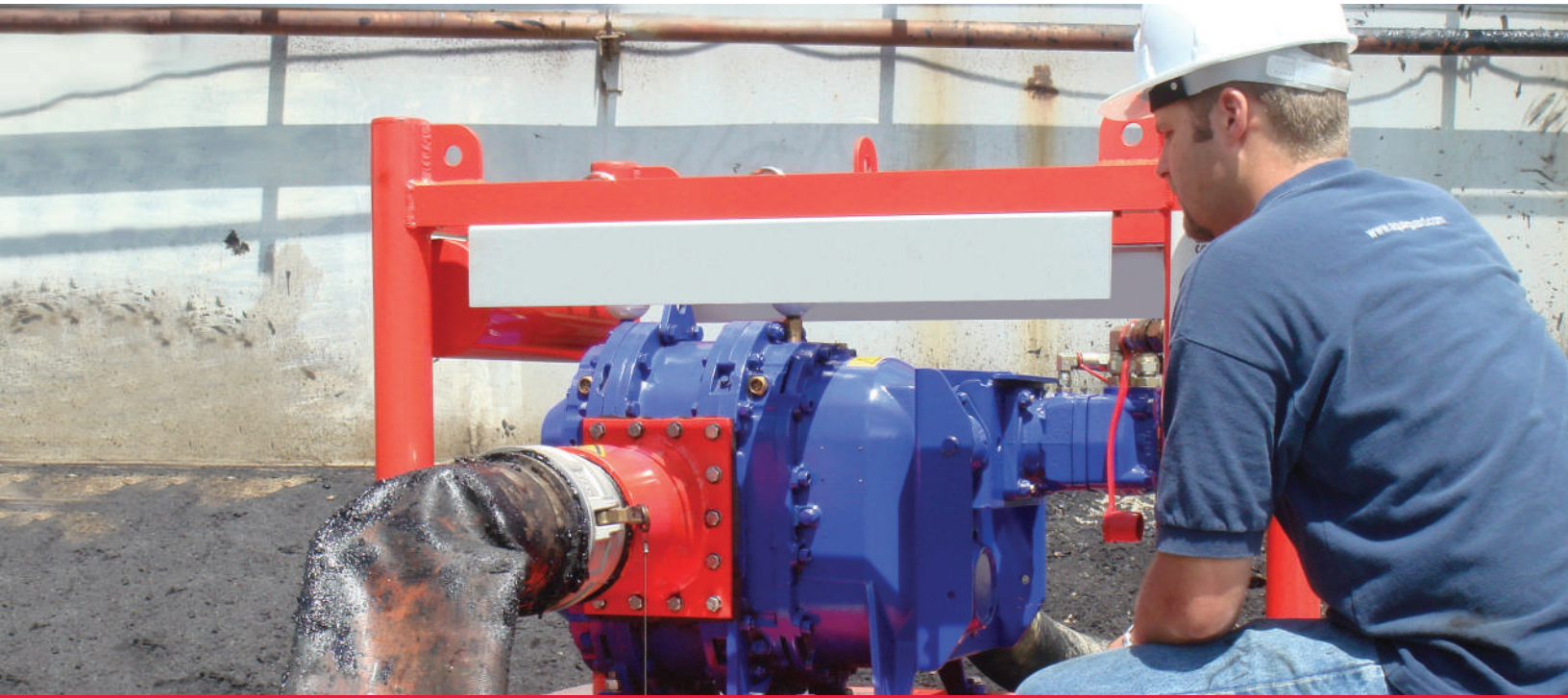


The state of the art in positive displacement pumps. The HiFlo® Lobe has increased capacity compared with former lobe designs while eliminating pulsation. When you choose a Vogelsang Rotary Lobe Pump, you get a product that is quieter, higher capacity, significantly smaller and longer lasting than many traditional pumps in the oil industry. The convoluted design of the HiFlo Lobe provides a large cavity that's perfect for harsh and abrasive slurries. This design also makes it possible to achieve your desired pressure at a slower rpm which results in less damage to lobes and minimal wear to the rest of the pump.

HiFlo® pumps can self prime to 25' (8m), run dry, discharge to over 200psi (15 bar), pump forward or reverse and pass solids up to 2.5" (61mm).



Our pumps are also very small compared to traditional pumps of the same capacity. This allows them to be placed into small areas with limited accessibility. They can be doubled and combined into powerful multi-stage systems that can easily move massive amounts of slurry. We offer pumps in many sizes and configurations to fit most any situation. There are also many options for internal parts. Harder less expensive elastomers are well suited for chemicals and slurries, allowing longer equipment life.



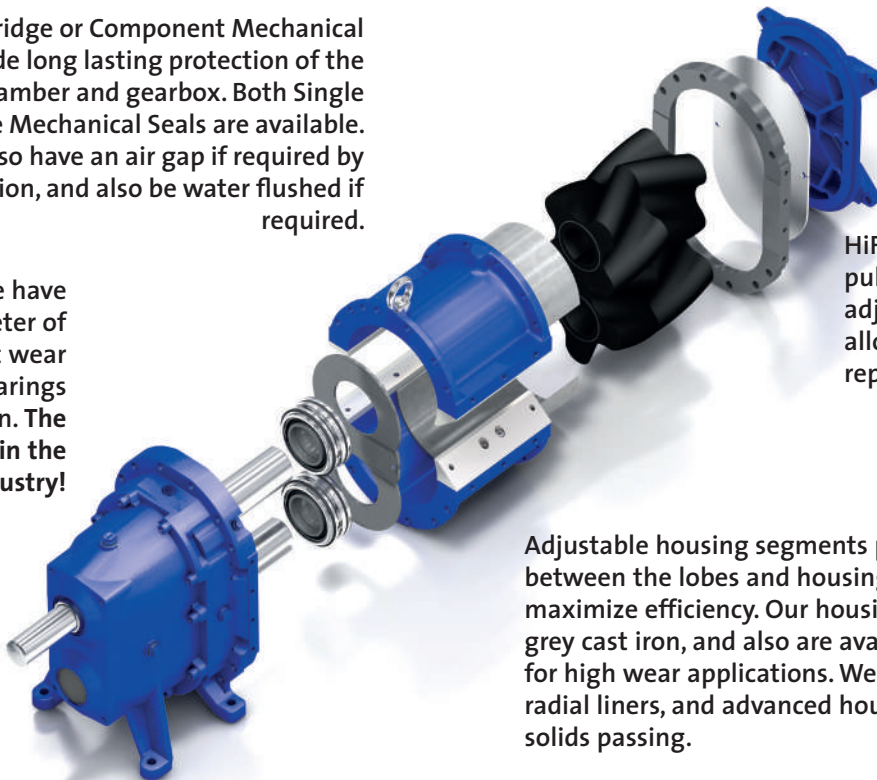
## Quick and easy access to internal parts with inline wetend rebuilds means minimal downtime without disturbing connected piping.

Robust Cartridge or Component Mechanical Seals provide long lasting protection of the buffer chamber and gearbox. Both Single and Double Mechanical Seals are available. Seals can also have an air gap if required by the application, and also be water flushed if required.

Wear resistant internal plates maximize pump life and reduce service downtime.

HiFlo rotary lobes provide pulsation-free pumping and adjustable housing segments allow for low cost wetend repairs & service

No step down shafts. We have maximized the diameter of our shafts to prevent wear lobes, seals and bearings caused by shaft deflection. The lowest shaft deflection in the industry!



Adjustable housing segments provide an accurate gap between the lobes and housing to minimize wear and maximize efficiency. Our housings come standard with grey cast iron, and also are available in tungsten carbide for high wear applications. We also have designs with radial liners, and advanced housing designs to assist in solids passing.



## APPLICATIONS

Vogelsang Rotary Lobe Pumps include several models of reliable pumps for both light and highly viscous oils. The type of pump is selected based on the operating conditions and the required capacity.

The most powerful pumps on the market today is our VX series pumps. They are a multipurpose rotary lobe with a capacity of 5 GPM up to 4400 GPM. Our pumps have been designed for use in a variety of oil-related pump applications and are able to pump a wide range of viscous liquids that contain abrasives and solids.

### Drilling Fluids

Our pumps are able to pull a suction lift up to 25 feet. We have no issues pulling drilling mud from the reserve pits and pumping it into the screening system and to the centrifuge.

Vogelsang pumps can run dry. Because of our run-dry ability our pumps will not gas lock the way many traditional pumps might. In addition, Vogelsang pumps will not emulsify oil in the liquid which is a big advantage with multi-phase pumping.

### Tank Cleaning

The rotary lobe pump makes a great pump for tank cleaning. The pump can be submerged or operate outside in the elements.

Our pumps are often mounted outside the tanks where they start to remove fluids from the tank. Our high suction lift ability allows the pump to strip the tank entirely to the bottom.

Once a majority of the fluid is out of the tank, the rest is pushed toward the pump with rakes or squeegees. Since our pumps have the ability to run dry we are able to continue to run even without liquids for short periods of time.



### **Transfer & Centrifuge Feed**

Transfer applications normally involve moving almost anything from thick and abrasive liquids from one tank to the next.

We offer pumps in many different configurations to suit the required location and orientation.

Our VX series is also an extremely efficient centrifuge feed pump. The VX series pumps include our patented HiFlo lobe design that increases efficiency and provides 100% pulsation-free flow.

### **Offloading/Tank Stripping**

Vogelsang pumps are commonly used for offloading due to their ability to be reversed and handle high pressure. The same pump can be used to transferred oil from tank to tank. It can also be reversed in order to pump off-board into a remote storage container or process equipment.

Vogelsang pumps are perfect for tank stripping, as they require very little suction pressure (NPSHa) due to their low operational speed. Rotary lobe pumps have the unique ability to provide high suction capabilities so that a tank can be emptied down to the last few inches of product during transfer. Vogelsang rotary lobe pumps provide high suction up to 30" of vacuum if necessary.

### **Skimmers**

Vogelsang Pumps are a perfect match for oil skimming and can be mounted directly on the skimmer or on shore.

Direct mounted pumps on a skimmer is a highly efficient way to ensure that thick oils is removed from the water surface. They are hydraulic drive which allows them to be submerged.

On-shore pumps for smaller skimming systems can be configured using small hydraulic skids or carts. They can be moved around easily without cranes.

Whether a mop, disc, drum or weir is used, Vogelsang Pumps are always the best choice for light-weight equipment.

**Our Company:**

Innovation and progress have been hallmarks of Vogelsang for over 80 years and have made us a leading designer and manufacturer of pumping, solids handling and process products. Time and time again we have achieved significant milestones of innovation and product development. Today, we manufacture some of the most innovative and reliable products for municipalities, industry and agriculture.

Our products are proudly made and assembled in Ravenna, Ohio, USA.

**Our Product Range:**

We offer solutions for the following areas:

- Industry & Processing
- Wastewater treatment
- Biogas
- Railway wastewater disposal
- Agriculture

**We Offer a Broad Range of Products:**

- Rotary lobe pumps
- Grinding 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**

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**PUMPING SYSTEMS DESIGNED FOR OIL & GAS APPLICATIONS**

Part #USL0008 Rev. G20P



**RotaCut®**

Inline macerator cuts and separates damaging solids suspended in liquid process stream.



**BioCut®**

Pump & RotaCut® combines the power of both products into one compact unit.



**XRipper® XRP QG**

Low-maintenance, drop-in alternative to other inline twin shaft grinders.



**HiFlo® Rotary Lobe Pump**

Designed to handle viscous liquids and tough solids.



**RotaCut® RCX48 & RCX58**

Inline macerator offers higher pressure, lower headloss and maximum solids reduction.



**XRipper® XRC with SIK**

Efficient shredding of coarse matter in wastewater channel applications.