Sugar Processing Industry
Robust Pumps that handle heavy abrasives.
Vogelsang has been a leader in the pumping industry for over 80 years. During this time, we've been responsible for most of the major innovations in positive displacement rotary lobe pump design. Recently, our rotary lobe pumps have quickly become more popular in the sugar processing industry. Due to the nature of our pump and lobe design as well as the materials we choose, your molasses, magma and even tailings can be pumped throughout your system with ease as compared to other positive displacement pumps. Our products are built to pump viscous liquids, with no pulsation and low shearing.
**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 optimize the components for your specific application.

For sugar industry applications, we offer steel, stainless steel and elastomer coated lobe options depending on the temperature and abrasiveness of the liquid. 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 engineering and production team will design your equipment to the appropriate size and configuration for your application. We offer belt driven pumps to fit tight installation areas, or fixed pumps for specific applications. Our pumps are available in many sizes and capacities that will suit most sugar 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 makes it possible to work them into your process without excessive retrofitting. 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.

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.
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.

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

No step down shafts. We have maximized the diameter of our shafts to prevent wear caused by deflection.

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

Adjustable housing segments provide proper pressure on lobes to minimize wear and maximize pressure.
Why choose Vogelsang?
Our pumps have been widely chosen for their ability to pump thick viscous fluids containing solids and debris. People like our pumps because they are easy to install, operate and maintain. The Sugar Industry requires a robust pump that can handle thick liquids often containing harsh abrasives running at high temperatures. Vogelsang is able to meet these challenge with a wide array of material, component and design options and the knowledge to apply them in the most effective way.

Molasses
Although gear pumps are commonly chosen for many molasses applications, they are limited in solids handling, create increased shear and are limited in maximum liquid temperature. Gear Pumps using packing are prone to leaking valuable product and require constant maintenance. Gear Pumps using mechanical seals are known to experience seal face failure due to sugar crystallization between faces. In addition, the gear bushing is a source of constant maintenance.

Vogelsang offers the best choice to pump all types of Molasses. Our pumps can handle viscosities anywhere from first molasses up to thick blackstrap molasses. Crystallization is not an issue as our pumps are designed to pass non-compressible solids without locking up. Vogelsang pumps avoid seal face failure due to our pressurized seal buffer chamber. Adding higher pressure inside the buffer chamber maintains a clean food grade lubricant between seal faces.

Temperature is an issue with many types of pumps however, Vogelsang is well suited for pumping Molasses. Our elastomer coated lobes can be used to pump liquids to around 180°F, and with metallic lobes we can pump liquids at a temperature as high as 300°F.

When it comes to maintenance, our pumps have a huge advantage because they can be rebuilt inline without the need to remove connected piping. It’s easy to perform maintenance in tight areas quickly with minimal hassle. Gear pumps use parts that are often integrated in the casing. They are difficult to work on and often have to be completely replaced when excessive wear diminishes performance.
Mud Clarifier/Thickener Underflow

It is common to find single acting diaphragm pumps on the Mud Clarifier/Thickener Underflow. It is typical to see six diaphragms working on one clarifier tank. One crank arm is often running three diaphragms a piece. This set up requires a great deal of electric power. In addition, torn diaphragms and worn crank bearings are a constant source of maintenance.

With available capacities to 4000gpm, the same application can be done with a single Vogelsang pump. Our pumps have more than enough power to move the mud from the bottom of the clarifier at low or high pressure. An added benefit is that the mud is constantly being mixed as it recirculates. Switching to Vogelsang offers a significant operation and maintenance advantage.

In terms of operation, a Vogelsang Pump is well suited to handle the sand and other abrasives found in the waste tailings. Since many Mud applications are in excess of 200°F, steel lobes can be specified. If the temperature is lower, a soft elastomeric lobe option is available. For instances when the Mud has a very high silica-sand content, we offer a flame-spray coating of tungsten carbide on the lobes, housing segments and wear plates.

Magma/Massequite

The metal lobe flapper valve pumps that are almost always found in this application are purpose built for this application. Although these pumps have been in this application for decades, they are prone to an array of operation and maintenance issues such as frequent breakdowns and leakage of product. Excessive flow pulsation and pipe hammering are also a big issues for the single lobe version of this style pump.

The Vogelsang pump offers a much smoother and efficient pumping action than a single lobe design. Our exclusive HiFlo rotary lobe eliminates pulsation. We offer pumps capable of higher flows and higher pressures and our advanced mechanical sealing system prevents external leakage of product.