Wastewater Treatment
Robust Products designed for viscous sludge.
Robust products for tough wastewater applications

Vogelsang has been a leader in the design and manufacture of wastewater pumping and processing products for over 80 years. During this time, we’ve been responsible for most of the major innovations in positive displacement rotary lobe pump design and the invention and development of the RotaCut Inline Grinder. Additionally we offer the X-Ripper twin shaft grinder for large wet or dry solids grinding. Vogelsang is proud to build its products in the US and also to service thousands of installations and satisfied customers all over the world.
Cutting Edge Materials
Every application of our products requires ideal material choices to optimize performance 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 performance. Our wear parts come in several material options to get you the best possible life.

Quality Custom Construction
Our production team will design your equipment to the most effective size and configuration for your application. We can build a compact unit to fit tight installation areas or a special flange design to allow a precise fit into and existing system. Our products are available in many sizes and capacities that will suit many wastewater application requirements. We offer the highest standard of construction and materials to ensure you get the highest quality product possible.

Service & Warranty
Our relationship doesn't end with the sale. Expect quick and expert advice and troubleshooting about our products once they're installed. When you need service or maintenance, we'll be there on time to get your system back up and running fast.

We offer 1-year manufacturers defect warranty to our industrial customers.
Vogelsang offers the premier positive displacement pump in the wastewater market. Due to the nature of our rotary lobe pump, our exclusive lobe design, most types of wastewater sludge can be pumped throughout your system with ease as compared to progressing cavity, centrifugal and other rotary lobe pumps. Our products are built to pump thick and abrasive sludge with no pulsation. Vogelsang pumps offer quick and easy access to the wet end for inline repair without disturbing connected piping.

High Solids, Heavy Grit & Abrasives

HiFlo VX Q series VX100, VX136 & VX186
The VX HiFlo Rotary Lobe Pump Product Line.

Vogelsang offers a full line of Rotary Lobe Pump models to suit various applications and operating conditions. The VX HiFlo Q series is our standard design and works well in most wastewater applications requiring a positive displacement pump. For increased flow and medium pressure, we offer the VX HiFlo QD series which features a much larger wet end and outboard bearing configuration to eliminate deflection. For high flow and high pressure applications, the Marathon QDM2 series handles pressures to over 200psi in a two stage outboard configuration.

All Vogelsang pumps can run dry without damage, self prime and run in forward or reverse. Vogelsang pumps are great for suction lift applications up to 25'. Due to our convoluted HiFlo Lobe design, the pump delivers pulsation free pumping action making it ideal for applications such as dewatering feed.
How the Rotary Lobe Pump Works

Two intermeshed lobes are affixed each to gear driven shaft. The shafts rotate in opposite directions. The rotating motion of the lobes creates an expanding cavity on the suction side. This allows fluid to enter and fill the suction side of the pump. The rotors carry the fluid around the housing to the discharge side where it is expelled out of the pump by the closing cavity.

Hard solids are passed through the pump within the cavities between the lobe and outer housing. The Vogelsang pump can pass most any solid that can fit in the cavity. Maximum non-compressible solid size varies by pump model up to 2.5”.

Pulsation Free, High Abrasives & Low Shear

The state of the art in positive displacement pumps. The HiFlo Lobe has increased capacity compared with former lobe designs while eliminating pulsation. The convoluted design of the HiFlo Lobe provides a large cavity that’s perfect for harsh and abrasive sludge. This design also makes it possible to achieve a required pressure at a slower rpm which results in less damage to lobes and minimal wear to the rest of the pump.

The gentle pumping action of the HiFlo Lobe is also friendly to shear sensitive liquids. This also applies to applications where large amounts of entrained air is present in the liquid.

Vogelsang offers six wing lobe options in the VX100 series and four wing for the VX136 & VX186 series. There are several elastomer options for maximum chemical compatibility, abrasiveness and temperature requirements.
Maintenance is performed in place without disturbing connected piping.

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

Robust Cartridge or Component Mechanical Seals provide long lasting protection of the buffer chamber and gearbox.

HiFlo rotary lobes provide pulsation-free pumping and adjustable housing segments allow for low cost wet end repairs & routine service.

Adjustable housing segments provide an accurate gap between the lobes and housing to minimize wear and maximize efficiency.

Our housings come standard with a brinell hardness of 700 with available tungsten carbide for high wear applications.

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

VX Pump Series Performance Specifications:

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</table>
Dewatering Feed Pumps
Our pumps have been widely chosen for to feed dewatering equipment such as Belt Press, Centrifuge and Gravity Belt Thickeners. This is largely due to the pumps ability to deliver sludge to the equipment evenly with no pulsation. An even flow of sludge to the dewatering equipment helps the equipment run as efficiently as possible and with less polymer.

Additionally, it’s compact and easy to fit or retrofit onto the same skid as the dewatering unit itself.

Primary & Secondary Sludge
Primary & Secondary Sludge are typically where we find the heaviest concentration of grit and floatable non-organic debris in the wastewater plant. The solids content is usually low; typically 1%-3% solids.

In this application, harder materials of construction are often chosen for the wet end along with abrasive-friendly elastomers for the lobes.

Typical operation of a lobe pump in Primary Sludge is best if the pump pulls a constant low flow of sludge versus intermittent on-off operation.

Digested & Thickened Sludge
Digested & Thickened Sludge applications are very common in wastewater plants that have use either anaerobic or aerobic digestion. These applications are normally between 3-8% solids and mostly very homogeneous in nature. In these applications the operating pump can see light to medium abrasive so the right material of lobes are very critical.

Digested sludge applications require low pulsation in their flow, as they typically feed to dewatering equipment. The lower the pulsation, the more accurate polymer dosage can be applied. Additionally, the pumps can encounter solids like hair and rags that may be difficult to pass by pumps not designed for solids handling.
**WAS & RAS**
Waste Activated Sludge requires the ability to pump varying viscosity sludge. Due to our HiFlo lobe design, we give you the most efficient positive displacement pump on the market.

WAS & RAS sludge is typically mild as the majority of the grit has settled out. Some grit will remain but it is usually in lower concentration.

The main challenge in pumping WAS or RAS is that it often contains high amounts of entrained air which can cause cavitation if the wrong flanges are installed. We overcome this using our gooseneck flanges, that keeps the pump primed and able to move the sludge through the pump without air locking. Standard materials of construction are sufficient for most applications including NBR lobes and standard wet end with either cast iron or Astempered Ductile Iron (ADI).

**Scum & Septage**
Scum is usually saturated with air and loaded with inorganics (floatables). Additionally, pumping high concentrations of floatables without sufficient water to move the solids is difficult due to the lack of conveyance. Even though flows are typically pretty low, we often prefer to oversize the pump and run it slower to allow the pump to pass larger solids.

Septage pumping can sometimes be the most difficult application in a wastewater plant, and normally ranges from .5-1% solids. Due to the way it’s collected it can contain grease, hard solids, hair, rags, and other solid wastes. The pumps need to pass the solids without damage. Vogelsang pumps are able to pass large solids due to the large cavities in the lobe design.

**DAFT**
DAFT applications are difficult not only because of the entrained air, but also the thickness of the sludge. Vogelsang pumps are designed for pumping viscous liquids containing heavy solids. A slower operating pump coupled with a wide range of available elastomers is critical. These applications require low speed in order to keep the pump from excess cavitation due to air pockets building in the cavities of the pump. Additionally, you can encounter floating solids, hair and rags that can build-up over time.
High Performance Grinding, Easy Inline Maintenance

The RotaCut inline grinder effectively reduces solids to specific size requirements, and reduces the costs associated with the operation of downstream equipment. Objects and debris suspended in liquid such as plastic fragments, rubber, hair, rags, applicators, plastic pens, string, wood, bones, etc. are drawn through the cutting screen and cut by the self-sharpening rotary blades into an acceptable size for the downstream equipment to pass.

Standard features include Auto Reverse, Auto Cut Control, self sharpening blades, and reversible cutter screens. RotaCut is 100% rebuildable inline, which eliminates the need to send out cutter cartridges for reconditioning.

Placed on the suction or discharge side of any manufacturer’s pump, the RotaCut will eliminate ragging, reduce solids and protect downstream equipment. Protect pumps and dewatering equipment from clogging, prevent damage to belt press and plate and frame press applications, and more efficiently balance your centrifuge feed.
The RotaCut Product Line.

Vogelsang offers a full line of RotaCut models to suit various applications and operating conditions. The RotaCut RC series is our standard design and works will in most wastewater applications suitable for an inline grinder. For increased solids reduction we offer the Pro, Pro Compact & Cyclone series which features a larger collection basin and horizontal head orientation. For more extreme solids handling, the RCX series is available and offers higher pressure, lower headloss and maximum solids reduction at even the highest flows.
Quality Performance & Control

The RotaCut requires direct contact between the blades and the cutting screen. This is how it achieves the scissor-like cut. The blades are designed to wear over time but must wear evenly to achieve maximum lifecycle between routine replacement. To ensure that the blades last as long as possible, the RotaCut includes a standard feature known as Auto Cut Control or ACC.

ACC ensures high cutting performance at all times by automatically adjusting the blades as normal wear progresses. ACC completely eliminates manual maintenance of the cutting head tension. The entire process is controlled externally which minimizes the need to open the unit.

The diagram below demonstrates the difference between manual adjustment versus real-time automatic pressure optimization.

- **ACC** – stable pressure
- **Manual preloading system** – fluctuating pressure; excessive pressure causes unnecessary wear
Easy Inline Maintenance

One of the best features of the RotaCut is how easy it is to maintain. Everything can be done inline in minutes without removing any connected piping. The RC series are all designed with a hinged cutting head that can be accessed by disengaging one or more hand latches. The head is disassembled by removing the allen bolt that holds the entire assembly together. At this point routine service such as blade or screen changes can be performed quickly.

The RCX model features a quick release door allowing access to the cutting head.

Typical routine service such as changing blades or flipping the reversible cutting screen takes only a fraction of the time required to service a typical twin shaft grinder. In addition there are no cartridge style parts that require factory refurbishment.

Specify a required cut size using one of several pattern cutting screens.

Screens come several patterns that will produce a designated size solid. The rotational speed of the cutting head also influences the solid size. The examples shown will produce a different solid size and are easily interchangeable should operating conditions change. Screens are available in several material options for high wear applications. All RotaCut screens are reversible to allow for a fresh cutting surface without buying a new spare part.
The X-Ripper twin shaft grinder effectively reduces large solids to manageable size for further solids reduction or for downstream pumps and equipment to process without clogging or damage.

What sets the X-Ripper apart from other twin shaft grinders is its unique cutting elements. Traditional twin shaft grinder cutters are stacked up along the shaft using smaller individual blades and components. The main disadvantages of the traditional design is the complexity of maintenance and high cost of repair. Periodic factory service is required to keep a traditional twin shaft grinder operating efficiently which affects maintenance costs and increases downtime.

The X-Ripper features solid ripper rotors that are precision machined out of high quality hardened alloy. They are not built up out of several smaller pieces like typical twin-shaft grinders. Our cutters provide long lasting grinding performance and are easy to replace without removing any connected piping or sending parts back to the factory.
The X-Ripper Product Line.

Vogelsang offers two main configurations, the XRS Q and QD, designed to operate in an inline fluid stream condition. There is also one configuration, the XRL QD, designed to operate in a wet or dry feed condition. The XRS comes in several housing sizes and wet-end options to suit numerous flow rates and solids handling conditions. The XRL is designed to work with a hopper feed and an adjustable frame. This allows it to be worked into an existing system with minimal retrofitting.
How the X-Ripper Works

The X-Ripper grinds and reduces solids by means of two rotating ripper rotors. Each rotates in the opposite direction towards the center of the device. This draws solids between the ripper rotors which effectively grinds the solids as they pass through.

To enhance the grinding effect, one of the cutting elements is rotating faster than the other. The difference in rotational speed enhances the overall ripping effect of the device.

Quality Performance & Control

The X-Ripper’s cutting performance can be controlled in two ways. The first method is by the width of the blades. The XRS 100, 136 & XRS 186 allow for optional blade widths which generate different cuts. Finer blade width results in a more reduced solid.

The other way to influence cut size is by rotation. Higher RPM also produces a finer cut.

The cutters are precision machined from as a single piece. They are made from specially processed steel that is formulated to be ductile inside with an incredibly hard surface. This creates a cutting element that is highly resistant to impact while retaining sharp edges.
Easy Inline Maintenance

By comparison to a traditional twin shaft grinder, the X-Ripper is easy to maintain. Everything can be done inline in without removing any connected piping. The front cover is removed for easy access to the wet end or cutting area. The X-Ripper’s ripper rotors are both removed at the same time and come off in solids sections versus individual pieces.

Typical routine service such as changing rotors takes only a fraction of the time required to service a typical twin shaft grinder. In addition there are no cartridge style parts that require factory refurbishment.

X-Ripper Grinder Performance Specifications:

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<th>Nm</th>
<th>Cut Solids in</th>
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<th>Flange Size in</th>
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<th>Max Pressure psi</th>
<th>bar</th>
<th>Solids Wet</th>
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Specify a required cut size using one of several cutting elements.

X-Ripper models 100, 136 & 186 have optional blade widths. The XRS 136 features optional cutting elements in .38” or .54” widths. The XRS 186 or XRL 186 features optional cutting elements in .31”, .41” or .63”. A width is selected based on the application, solid type and operating conditions.
Our grinders have been widely chosen for handling solids and conditioning sludge in a variety of applications throughout a wastewater treatment plant. RotaCuts are generally placed in front of pumps and process equipment that are vulnerable to damage by liquids containing hard solids, fragments and debris commonly found in wastewater sludge streams.

In many cases, a RotaCut can replace an inline twin shaft grinder in common wastewater applications.

Primary Sludge
Primary Sludge is a tough application for most any grinder. The typically heavy concentration of grit and floatable non-organic debris creates the need for a grinder that can perform and last in these operating conditions.

In this application, The RCX Series is recommended due to its high flow range, low head loss and overall robust construction. The RCX has a very large cutting area for its footprint and can be retro-fitted into an existing system in a variety of ways.

Sludge Transfer
Moving sludge from one process to the next creates an opportunity for damaging debris to find its way into process equipment where it doesn’t belong. Adding a RotaCut in key locations throughout the overall system, eliminates solids from the stream before they can cause harm to potentially sensitive components.

A RotaCut model will be recommended based on the flow range, fluid type and operating conditions. Vogelsang offers the largest range of inline rotary style single shaft grinders in the wastewater market and will recommend the right model for your specific requirements.
Dewatering Feed
Adding a RotaCut in front of a Belt Press, Centrifuge, Gravity Belt Thickener or most any other dewatering device protects it from harmful solids, excess grit and floatables.

Additionally, the rotating action of the cutting head conditions the sludge into a homogenous suspension that flows evenly into the device. Combined with the pulsation free flow provided by our pumps, the dewatering equipment is fed fully conditioned sludge free of potentially damaging elements.

Digester Feed
Much like feeding dewatering equipment, the RotaCut is also well suited to prevent heavy objects from entering the digester. In the process, the sludge is also conditioned to a homogenous suspension ready for digestion.

The RotaCut offers a distinct advantage over twin shaft grinders in feeding applications. The scissor-like cutting action reduces rags, hair and other fibrous objects into fine particles. Twin shaft grinders tend to rip these solids into longer shredded pieces. The presence of larger solids in the liquid interferes with the process and can cause blockages.

Digester Cleaning
Digester cleaning is a particularly harsh application. Depending on the solids handling performed on the inbound sludge stream, evacuating heavy residual sludge can be a high-wear application for most inline grinders.

As with Primary Sludge, we often recommend our RCX series RotaCut due to it’s powerful design and robust construction. The RCX powers through thick sludge containing high amounts of heavy solids, grit and other debris that is known to settle in the bottom of digesters used for municipal, industrial or agricultural wastewater.
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
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Vogelsang
7966 State Route 44 • P.O. Box 751
Ravenna, Ohio 44266, USA
Toll Free: 800.984.9400
Tel: 330.296.3820
Fax: 330.296.4113
www.vogelsangusa.com
sales@vogelsangusa.com