Positive Displacement Pumps, Inline Macerators & Distributing Products

Vogelsang

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An ISO9000 2001 Certified Manufacturing Company

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Innovation & Quality

Application Engineering

Since 1929, Vogelsang has been providing the right product for the job, Staffed with seasoned, professional application engineers, Vogelsang will assist you in the selection of the correct product and configuration for all your municipal, industrial, and agricultural needs.

Design & Engineering

Our products can be modified and combined to fit specific requirements. Our design team will create a system that will achieve your goals. Our engineering staff will ensure your new system works flawlessly.

Quality Custom Construction

Our production team will configure your equipment to work within your existing facility as directed by our engineers. We offer the highest standard of construction and materials to ensure you get the most life possible out of our products.

Cutting Edge Materials

Every application of our products has an ideal set of 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 life of the equipment for your specific needs. This benefits you both in extended equipment life, and reduced operation and maintenance cost.

Versatility

Our products can be configured and combined in a variety of ways to meet your demands. The versatility of our products makes it possible to get them into small areas with limited accessibility. Our HiFlo Rotary Lobe pumps are typically smaller than a traditional progressing cavity pump of the same capacity. This makes it possible to get them into areas where others simply won't fit.

Service & Comm

In-Line Service

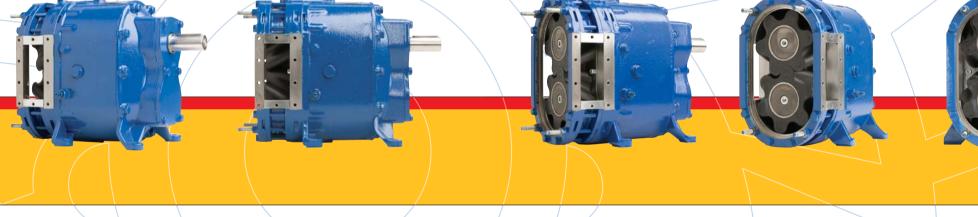
Servicing of the wet-end of our products is done without removal of equipment. In-line service means quicker repairs, less downtime, and reduced labor costs.

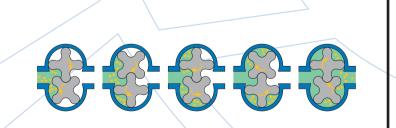
Parts Availability

With the support of over 100 worldwide distributors, spare parts and trained service professionals are just around the corner.

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.





How our pumps work

HiFlo, 100% pulsation-free rotors are driven on each shaft by external timing gears to rotate in opposite directions. The motion of the rotors creates an expanding cavity on the inlet side to allow fluid to flow into the pump chamber. The rotors carry the fluid around the housing segments to the outlet side, where it is forced out of the pump as the cavity contracts. Flow is controlled by the speed of the pump, and its displacement per revolution.

Commitment

Lifeguard

Lifeguard represents our mission to create the best products in the industry. Continued research and development has made it possible to overcome the weaknesses of traditional pumping equipment. We've overcome these problems by employing better design and materials. The results are longer life and less frequent service than traditional pumps. Wherever you see a lifeguard icon is a problem area that we've researched and made better.

Warranty

Our confidence in our products shows in our warranty. Our standard warranty is 2 years, 100% parts and labor, including wear parts, such as mechanical seals, lobes, bearings, cutting screens, blades etc. If your equipment goes down, we get you back up and running as quickly as possible. The combination of a great warranty and easily maintained equipment gives you worry-free service.

Pulsation-Free Pumping

The convoluted, specifically engineered geometric design of the HiFlo rotor allows for pulsation-free pumping through the entire range of operation. Its unique design is excellent for applications requiring low shear, highly entrained air, low to high viscosity products, and products requiring gentle solids handling.

HiFlo Innovation

Pumps designed for highly viscous liquids containing particles and debris.

Since 1929, Vogelsang has been a world leader, manufacturing a family of high quality, extremely dependable sludge handling and pumping products for the industrial, municipal, and agricultural markets of the world.

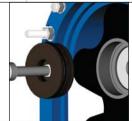
With the release of the HiFlo pulsation-free rotors, used exclusively in the Vogelsang positive displacement, rotary lobe pump, Vogelsang once again marked itself as an industry leader.

HiFlo's unique design allows for pulsation-free operation through the entire range of pumping.

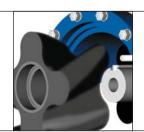
Additional features include self-priming to 25' (8m), an ability to run dry for indefinite periods, pumping in either direction, while requiring no modifications to the pump, and a minimum of 25% more sealing lines per series, over conventional designs. Coupled with Vogelsang's uniquely designed rotary lobe pump, the combination will allow flows from 5 to 6,000 gpm (1.1-1,363 m³/hr), and pressures to over 200 psi (15 bar).

Product viscosities from water to molasses are easily pumped with the HiFlo rotor. Power options include: electric, hydraulic or power take off.

When your application requires an affordable pump, that has low shear, high efficiency, low cost operation, an ability to pump highly entrained air and high solids content, you owe it to yourself to find out more about Vogelsang Pumps.



Quick and easy access to internal parts with in-line wet-end rebuilds means minimal downtime without disturbing the piping.



HiFlo rotary lobes provide pulsation-free pumping and longer wear than the competition, through our additional sealing lines.

Adjustable hous-

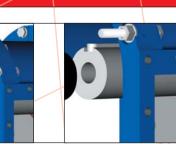
ing segments provide an

ability to bring the pump

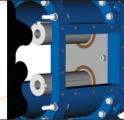
the event of wear, without

back into tolerance. in

purchasing spare parts.



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



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



HiFlo Applications

HiFlo Lobe Options

Depending on the series of pump you need, our exclusive HiFlo lobes come in four and six wing configurations.





You've read what we think about our pumps, but what do our customers think? Below are examples of how we have increased efficiency, and reduced downtime and costs for our customers. You can find even more by visiting our website, www.vogelsangusa.com and choosing "success stories".

KB Compost, Akron, Ohio

"These pumps have reduced our operating costs significantly. All privately held wastewater operations should be using Vogelsang to reduce cost."

-Mel Kurtz, President Kurtz Brothers

City of Oil City, Pennsylvania

"Our Vogelsang pumps gravity thickened sludge to our Anaerobic Digesters. After a year of operation, they show no wear, and we are very satisfied with the pumps." -Dick Curran, Foreman of Oil City WWTP

Andritz-Ruthner, Inc., Pittsburgh, Texas

"After extensive use of Vogelsang Rotary Lobe pumps in applications where our customers demanded uninterrupted service, I can say that Vogelsang pumps provided a trouble free solution to our pumping needs!"

-Carl Malkiewicz, Senior Project Manager







Municipal & Industrial Wastewater

Designed for waste water applications, our pumps can be placed in a variety of positions throughout your facility, Applications include: Flocculate Metering, Sludge Dewatering to 18% Solids, Oil-Water Separation, DAF Sludge, Belt Filter Press and

Industrial & Chemical Facilities

Our pumps can easily handle many applications in number 6 fuel oil at 1500 gpm (341 m³/hr), at 110 Industrial and Chemical Plants. Applications include: psig (7.5 bar) from multiple holding tanks to waiting Chemicals, Coatings, Adhesives, Acids, Alkalines, ships. The same pump is also run in reverse to unload Pastes, Emulsions, Feed Stock and Semi-Finished. the incoming ships. *Illustrated to the left*, is a refinery application, pumping

Food Industry

There are many areas in food processing plants where advantage of Vogelsang's ability to pump DAF waste, our rotary lobe pumps offer outstanding performance. loaded with solids, quickly and efficiently. The utilization Applications include: Food Waste, DAF, Potato Pulp, of standard gooseneck flanges, allows for a suction lift Mash, Paste, Treacle, Blood, Train Oil, and many more. of 25' (8m), and constant prime. A typical food waste application *shown*, highlights the

Wineries & Beverage Industry

HiFlo lobes are easy on grapes and other fruit pulp. The convoluted design, reduces liquid shear, and provides 100% pulsation-free operation. Applications include: Must, Pump Over, Leas, Pumace. Grape friendly over, with the same pump.

Portable Applications

Our pumps travel well. Durability and compact size make Vogelsang pumps great for temporary on-site and liquid shipping applications. Applications include: Well Drilling Water, Construction Site Waste Liquids, Ship Building Bilge and Ballast Water. A light the ability to run dry.

Mills and Recycling Facilities

Perfect for pumping thick and acidic paper pulps and Paper Mill applications, Pumping Stock, Coating, or liquids containing adhesives, coatings, dyes, plastic White Water, Vogelsang is the competitive answer to chips and other fragments present during the recycling the typical high priced competition. process. The HiFlo pump shown, is typical of our

Pe	rformance	Specificat	tions:
		opoonioui	

Ser Mo	ies & del	Capa _{gpm}	ncity m³/h	Displac gal/100rev		Max S in	Solids mm	Flang in	e Size mm	Q: psi	Max I bar	Pressure QD: psi	bar	Speed rpm nom.	1/min max.
100) 45 64 90 128	13-60 22-85 26-120 40-170	3-13 5-19 6-26 9-38	7.7 11.1 15.6 22.2	29 42 59 84	.75 .75 .75 .75	20 20 20 20	2.5 3 4 4	65 80 100 100	145 131 102 58	10 9 7 4			200-800 200-800 200-800 200-800 200-800	1000 1000 1000 1000
136	5 70 105 140 210 280 420	45-200 65-310 90-400 130-610 180-800 260-1220	10-45 15-70 20-90 30-140 40-180 60-280	33.5 50 67 100 134 200	127 190 253 380 506 759	1.5 1.5 1.5 1.5 1.5 1.5	40 40 40 40 40 40	4 6 6 6	100 125 125 150 150 150	145 145 116 73	10 10 8 5	174 174 174 145 116 87	12 12 12 10 8 6	150-650 150-650 150-650 150-650 150-650 150-650	800 800 800 800 650 650
186	92 130 184 260 368 390 520 736	90-440 130-640 180-880 260-1280 360-1760 390-1920 520-2560 720-3520	20-100 30-145 40-200 60-290 80-400 90-435 120-580 160-800	94 133 188 266 376 399 532 752	356 503 712 1006 1424 1509 2012 2848	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	61 61 61 61 61 61 61 61	6 6 8 10 10 10 10 10	125 150 200 250 250 250 250 350	145 145 116 73 29 29	10 10 8 5 2 2	174 174 145 116 102 87 44	12 12 10 8 7 6 3	100-500 100-500 100-500 100-500 100-500 100-500 100-500 100-500	600 600 600 600 600 600 600 600

Centrifuge Feed, Raw Sewage, Primary, Secondary, and Scum. Space saving and cost effective: as shown, compared to an existing progressing cavity pump, the photo exemplifies Vogelsang's size advantage on similar applications over the Progressing Cavity Pumps.

HiFlo Pumps, shown at a California "Jug Wine" producer, the Vogelsang pump processes more than 1,000 gpm (227 m³/hr) of must, leas, pumace or pump

and rugged HiFlo Pump, shown on a chemical tanker, Hamburg, Germany, is well suited for shipping chemicals, waste slurries, etc. Vogelsang advantages include PTO drive, forward and reverse pumping, and

RotaCut ln-line Macerators

The ultimate in solids reduction - Engineered Technology to reduce solids, and protect downstream pumps and equipment

This high performance in-line macerator 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 shredded by the self-sharpening rotary blades into an acceptable size for the downstream equipment to pass.

Optional cutter screen configurations provide the ability to condition solids to specific sizes, down to less than 1/4" (6mm).

Standard features include auto reverse, self-sharpening blades, and reusable cutter screens. RotaCut is 100% rebuildable in-line, which eliminates the need to send out a cutter cartridge for reconditioning.

Placed on the suction or discharge side of any manufacturer's pump, the RotaCut will eliminate ragging, reduce solids and protect down-stream equipment.

Protect pumps and dewatering equipment from clogging, prevent damage to belt press and plate and frame press applications, and more efficiently balance your centrifude feed.

Choose a RotaCut when your application requires an affordable, high quality, in-line rebuildable macerator, to reduce cost and increase efficiency.

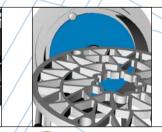


GUARD In-line maintenance and blade replacement is made easy with quick access to cutting head. No need for costly cartridge replacement.



The hardened Reverse function enables steel, self-sharpening blades are attached to the the blades to automatishaft by pressure disks. cally reverse the rotation This ensures proper conif an object becomes tact between the blades lodged in the screen. and screen.

The Automatic



The specially designed cutting screen is available in several different patterns to suit your specific application.



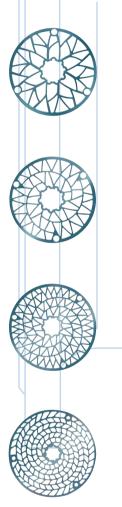
GUARU Heavy objects such as metal fragments are collected in the flanged basin for easy removal.



RotaCut Applications

Optional Cutting Screens

Achieve a specific size of cut solid by selecting coarse to fine RotaCut cutting screens.





Accolades!

RotaCut inline macerators are quickly becoming more popular as an alternative to conventional twin shaft macerators due to their high performance, low cost and easy maintenance. Since we introduced the RotaCut in 1990, we've had hundreds of successful installations worldwide. During this time, our customers have enjoyed a product that lasts under the harsh conditions of a municipal or industrial facility.

You've read what we think about our macerators, and now here's what our customers think. Below are examples of how our inline macerators have reduced downtime and costs for our customers. You can find even more by visiting our website, *www.vogelsangusa.com* and choosing "success stories".

Lewisburg, Pennsylvania

"We chose Vogelsang over the typical twin shaft macerator for its ease of maintenance. It's repairable in line, no more costly refurbished cartridges."

-Bill Dasher, Plant Manager

Delray Beach, Florida

"Delray Beach uses Vogelsang, because it performs flawlessly to our requirements and reduces our cost; that's the bottom line." -Bob Hagel, Plant Manager

Performance Specifications:

Model	RotaCut 1500	RotaCut 3000	RotaCut 5000	RotaCut 10000	
Motor Options	Geared Motor	Geared Motor	Geared Motor	Geared Motor	
	Hydraulic Motor	Hydraulic Motor	Hydraulic Motor	Hydraulic Motor	
Optional Rotational Speeds	78	76	76	66	
rpm 1/min	159	177	177	171	
	318	330	318	317	
Installed Power hp kW	1.5 / 1.1	2.0 / 1.5	2.0 / 1.5	3.0 / 2.2	
	3.0 / 2.2	3.0 / 2.2	3.0 / 2.2	7.5 / 5.5	
	3.0 / 2.2	3.0 / 2.2	5.0 / 3.0	10.0 / 7.5	
Max Flow gpm m³/h	400 / 90	800 / 180	1300 / 300	2600 / 600	
Max Pressure psi bar	30 / 2	30/2	30 / 2	30 / 2	
Flange Size in mm	4 / 100	6 / 150	6 / 150	8 / 200	







Municipal & Industrial W

In-line RotaCuts are frequently waste water solids conditionin receiving at the front of the pla clarifier feed, RotaCut can be existing pumping equipment,

Industrial & Chemical Fac

Macerating solids such as rags sand, and separating out solids RotaCut protects downstream p Fuel recycling plants, truck or

Food Industry

Used either pre-process or por in-line is your answer to solid food related applications. Fron fruit, and vegetable waste into solids of animal internals, Rota

Pulp & Paper

Protecting mainly the wastewa RotaCut in-line macerators, pr primary and secondary sludge plate and frame presses, and c

Agricultural Applications

Either mounted on a three poi the side of a tanker or tractor, cally driven units provide a co punch. Pre-macerating lagoor application reduces down-tim

General Scrap Waste Pro

Used in a multitude of applica ates textile and woven waste, r ubber and re-macerate waste and related fiberglass product goods, cardboard and similar

[
Vastewater						
tly used on all aspects of ing. From septage plant, to digester and e installed with your t, or as a package with a	Vogelsang positive displacement pump. Additional uses are specific solids conditioning for maximum effectiveness of heat exchangers and SBR plants. Stop ragging and hair build-up for good.					
acilities						
igs, paper, wood, and ids like nuts and bolts, a pumps and equipment. on and off loading,	chemical container disposal, soil remediation facilities, and oilspill clean-up are applications that require specific size conditioning of solids, to provide maximum performance of downstream equipment.					
post-process, the RotaCut ids conditioning in many om processing potato, o mash, to reduction of otaCut provides a cost-	effective way of making common scrap material into revenue generation through saleable conditioned feed stock for Bio-Gas and similar energy producing processes, in addition to animal feed enrichment stock.					
vater side of the process, protect the clarifiers, ge pumps, belt filter and centrifugal pumps from	wood chips and bark, wire, coarse debris, floor drain waste, rags, rope, string, and other fibrous material, that could easily damage typical processing equipment.					
s oint hitch, or directly to r, The RotaCut hydrauli- compact foot print with a on solids prior to land me associated with	distribution head blockage, and further enriches the nutrients applied to the field, through ease of equal distribution of solids. Ear tags, hoof trimmings, bailing wire, stones and rocks, are ground to a manageable size, for easy application.					
ocessing						
cations, RotaCut macer- e, plastic and wood waste, te, fiberglass insulation, cts, tannery and leather ar packaging waste, and	a multitude of wood by-products. Used in power plants, cogeneration, nuclear installations, automotive, electrical, and apparel plants, RotaCut provides unin- terrupted service to the markets of the world.					



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