



# QUICKLY BACK ON THE ROAD

Wastewater disposal and fresh water  
supply from coaches

VOGELSANG – LEADING IN TECHNOLOGY

**V/OGELSANG**







# YOU CAN RELY ON IT

**Quality, experience and  
expertise guarantee  
future-proof technology**

**As the inventor of the elastomer-coated rotary lobe pump and a tireless pioneer, Vogelsang has numbered among the world's leading mechanical engineering companies in the area of wastewater disposal for decades.**

Based on our years of wide-ranging experience and continuous research work, we develop highly functional pumps and entire systems for busses that guarantee trouble-free, hygienic draining of wastewater tanks and simplify the supply of drinking water. Both the production level and the quality of the material used by us show how seriously we take our commitment to our customers and to their customers. That is why we also ensure that our plants can be operated safely. Our pumps and disposal systems are just as easy to maintain as they are durable, and therefore fulfill all the requirements of combining efficiency with sustainability.



### **Satisfied coach passengers**

Satisfied coach passengers, who are completely relaxed and unconcerned even by a longer coach journey and enjoy the trip to the full. Not standing in front of locked toilet doors during the journey is a reason for this.



### **Satisfied bus drivers**

Satisfied bus drivers who can drive their bus relaxed cause they know that they can simply and quickly clean the waste-water tank and faeces without baring any health risks. An illegal dumping on the roadside or in the forest is also no longer necessary. This is also a plus for the environment.

„With RoadpumpPlus toilet disposal, my work as a bus driver has become so much easier! I have no longer stress due to the disposal work. Fast, hygienic and efficient - simply perfect for smooth operation. Thank you for the innovation that makes my everyday life easier!“



### **Satisfied bus fleet and rest stop operators**

Satisfied depot operators who appreciate the fact that with the help of Roadpump solutions bus drivers can easily and quickly dispose of the wastewater tank or faeces before starting their journey. This increases the satisfaction of both employees and bus passengers.

Satisfied rest stop operators who really appreciate the fact that bus drivers make a stopover at the rest stop and can quickly and easily dispose of their wastewater tank or faeces with the help of the Roadpump solutions. In the meantime, the coach passengers increase turnover by purchasing provisions or a shopping trip to the store.

The stationary Roadpump solutions are very easy to place on the premises due to the small dimensions of the units; either in an open area or protected under a roof. Placement in a closed facility is also conceivable and can be implemented quickly.



# TAILORED DISPOSAL

## We have the perfect RoadPump solution for each application

Depending on the requirements of your installation, we have the perfect solution for you. If you have a small bus depot, a public area or a private business, or even a big petrol station on the highway; if your prevision is to use the RoadPump once a week or several times an hour; we always come up with the perfect equipment to fit your needs, e.g., when it comes to mobile solutions, payment and authorization systems, remote maintenance, weather resistance, unusual positioning or additional services such as a hygienic drinking water supply.



### RoadPump Plus

The RoadPump Plus is a stationary supply and disposal system in a weatherproof housing. All parts required for unplugging and supply are kept in the housing and are electromechanically locked, preventing vandalism and theft.

The wastewater tanks can be emptied with the CollectingMax trolley or directly via the BusPlug suction connection. With both methods contamination of the immediate environment with faeces can be prevented. In combination with the BusPlug an automatic flushing of the wastewater tank can be done.

The RoadPump Plus has a unique feature to offer: it has a drinking water filling facility, as well as a hygienic flushing system. It fulfills the requirements of drinking water quality according to the German Federal Railway Authority (EBA). The housing is heated, which prevents freezing of the individual components.

The system can be equipped with different payment solutions. This version can also be set up as a self-service system. The design and operation are modeled on a petrol pump to simplify the installation in these facilities.



### RoadPump Easy

The RoadPump Easy is a cost-effective stationary system in a weatherproof stainless steel housing.

The wastewater tanks can be emptied with the CollectingMax trolley or directly via the suction connection BusPlug. With both methods contamination of the immediate environment with faeces can be prevented.

In addition, there is the possibility to fill the water tank with tap water or even to flush the wastewater tank. Operation is via buttons and can be operated by the bus driver; there is no need to permanently have an operating personnel on site.

Optionally, a pay-per-use system can be installed using coins or tokens.



### RoadPump Eco

The RoadPump Eco is a mobile, cost-effective alternative alternative to the stationary Easy and Plus solutions. It can be used together with the CollectingMax or with a BusPlug, if it is already installed on the bus.



### BusPlug

The BusPlug is made of plastic and aluminum and can be easily retrofitted. It is quickly and easily connected to the RoadPump using a standardized Kamlock coupling.



### CollectingMax

The CollectingMax consists of a large drip tray made of chrome-nickel steel and is quickly and easily connected to a RoadPump using a standardized Kamlock coupling. It fits therefore perfectly for all bus types.

# COMPLETE CONTROL OF DRAINING AND CLEANING

Rotary lobe pump in top form



Traveling on coaches is becoming more and more popular. With rising passenger numbers, one particular challenge is to dispose of wastewater from washrooms and toilets hygienically. To ensure that this disposal is controlled and does not take place under unhygienic conditions that are hazardous to health, Vogelsang has developed the RoadPump.

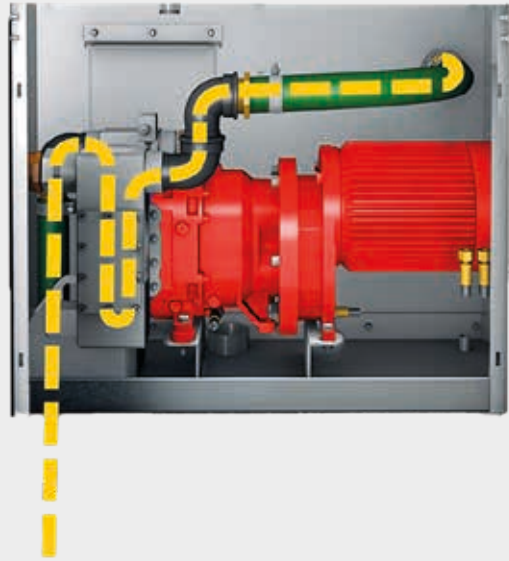
The RoadPump is a disposal and supply station for wash-room and toilet wastewater, specifically designed for bus stations, bus depots or stopping places and rest stops.

It uses various collecting devices and its built-in pump system disposes wastewater safely and hygienically in the connected sewer system or collection tank. At the same time, it supplies tap and drinking water.

The robust vacuum technology of the RoadPump and the intelligent design of the collection facilities prevent contamination of the road.

To ensure a high level of user acceptance, the RoadPump has a simple structure. It can be operated without difficulty by any bus driver or station employee.

At the heart of the RoadPump is the established rotary lobe pump technology. Vogelsang – the market leader in the field of toilet wastewater disposal in passenger train coaches – has been using pumps in this design around the world for more than twenty years. They have an outstandingly compact type of construction, are very easy to maintain, and are extremely resistant to foreign matter. Toilet paper, pieces of fabric and other contamination that is commonly present in wastewater do not impair the rotary lobe pump's operation.



The core of every RoadPump is a Vogelsang rotary lobe pump of the VX series.

## Vogelsang rotary lobe pump of the VX series



### Advantages of the rotary lobe pump for toilet sewage:

- Hygienic and fast wastewater disposal system
- Resistant to dry running
- Maximum tolerance of foreign matter
- Easy maintenance
- Easy handling & self-service

# COLLECTING OPTIONS

## Wastewater tank disposal with Vogelsang's convenient solutions



### **BusPlug: For the cleanest disposal of wastewater from buses**

The BusPlug was developed by Vogelsang to enable the clean, quick and comfortable suction of wastewater in travel coaches. The BusPlug can be easily retrofitted and is connected to the RoadPump quickly and easily using a Kamlock coupling. Even larger contaminants such as lighters or paper towels can be extracted without problems and completely odor-free.

### **Advantages of the BusPlug:**

- Cleanest way to dispose of wastewater from buses
- Easy to install and to retrofit
- Easy to dismantle for inspections on the tank
- Made from chemical-resistant materials
- Prevents the creation of vacuum and damage in the wastewater tank
- Tried-and-tested Kamlock coupling

**CollectingMax - the mobile collection tray for all bus types**



**CollectingMax: Mobile and ready to use for every bus**

The CollectingMax consists of a large drip pan, which any employee or driver can quickly position under the outlet for toilet sewage on the bus. The system is easy to operate and fits all bus types perfectly. The drip pan is designed to enable a rapid outflow and prevent spray from toilet wastewater.

The CollectingMax is an efficient solution for smaller bus stations or bus depots, and also for rest stops. It can be used without difficulty by untrained personnel.



# OPTIONS

**Accessories for disposal solutions  
for greater convenience**



## **Console**

Stainless steel enclosure underneath to accommodate the CollectingMax collection device. Piping set for internal connection connection of the RoadPump media supply and disposal.



## **Digital payment system**

Complete solution for contactless payment, ideal for unattended machines in freely accessible or non-public environments. Payment system for the use of loyalty cards, credit & prepaid cards and mobile NFC-based payment transactions.

# SPECIFICATIONS

	RoadPump Eco	RoadPump Easy	RoadPump Plus
<b>Rotary lobe pump type</b>	VX100 - 45Q	VX100 - 45Q	VX100 - 45Q
<b>Max. capacity</b>	180 l/min	180 l/min	180 l/min
<b>Max. delivery height</b>	8 mWC	8 mWC	8 mWC
<b>Max. differential pressure</b>	2 bar	2 bar	2 bar
<b>Motor power</b>	2.2 kW	2.2 kW	2.2 kW
<b>Power supply</b>	3 Ph x 230/400 Volt, 50 Hz	3 Ph x 230/400 Volt, 50 Hz	3 Ph x 230/400 Volt, 50 Hz
<b>Cabinet</b>	-	Stainless steel 1.4301	Stainless steel 1.4301
<b>Suction hose</b>	5-20 m, 40 DN spiral hose	5-20 m, 40 DN spiral hose	4.0 m, 40 DN spiral hose, self-retracting
<b>Suction hose for suction lance</b>	-	2"-Suction lance with Kamlock M-part	-
<b>Tap water hose</b>	-	10 m ½" hose on self-retracting hose reel	7 m ½" water hose on self-retracting hose reel including system separator in accordance with DIN/EN1717
<b>Drinking water hose</b>	-	-	7 m ½" hose on self-retracting hose reel and automatic hygienic flushing
<b>Approx. dimensions (H x W x L)</b>	960 mm x 670 mm x 1,230 mm	960 mm x 640 mm x 1,035 mm	1,700 mm x 900 mm x 2,000 mm
<b>Approx. weight</b>	210 kg	290 kg	650 kg
<b>Heating system (optional)</b>	-	1 x 250 W with thermostat	2 x 250 W with thermostat

# WHEN IT COMES TO SERVICE, WE LEAVE NOTHING TO CHANCE

## Comprehensive services for smooth operation and a long lifetime

### Support and supply from A to Z

Because we are aware that close customer proximity is essential for our mutual success, we design our services to best meet your needs. In Germany and in countries where we have subsidiaries, Vogelsang service centers and contractual partners generate an active dialog with our customers and provide reliable support.

This means you always get the precise support you need in every phase of our partnership. Our highly qualified staff make it possible – experts such as consultants and technicians who know your Vogelsang machines inside and out.



Since its establishment in 1929, Vogelsang has become an internationally recognized mechanical engineering company with numerous branches, sales centers and subsidiaries.



### **We think ahead**

Thinking ahead in your best interest begins with our extensive and detailed product documentation. Spare parts are available within a short time due to our high degree of vertical integration in production. In addition, you will always find an authorized service partner in your area who can help with repairs and wear part replacement. The Vogelsang ServicePack completes the offer. Whether you need start-up, on-site training, training at the Vogelsang facility, or full service support with a maintenance contract and a wear parts service package – we offer a support program tailored specifically to your needs.

## What we offer

We provide solutions in the following sectors:  
AGRICULTURAL TECHNOLOGY, BIOGAS,  
INDUSTRY, TRANSPORTATION, WASTEWATER



## Our broad range of products and services

- Consulting and service
- Data management and control technology
- Disintegration technology
- Individually tailored solutions for special applications
- Pumps and pump systems
- Solid matter feeders
- Solids reduction, separators and mixers
- Spreading technology
- Supply, disposal and cleaning

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Vogelsang GmbH & Co. KG  
Holthoeye 10 – 14 | 49632 Essen (Oldenburg) | Germany  
Phone: +49 5434 83 - 0 | Fax: +49 5434 83 -10  
germany@vogelsang.info

[vogelsang.info](https://www.vogelsang.info)

