



# Flowrox GeoBox™

Flowrox GeoBox™ is a roll-off geotextile filtration and dewatering unit. It is specifically designed for dewatering of waste and process sludges and filtration of waters with high solids content. Flowrox GeoBox enables easy and cost-efficient transportation of solids or concentrated sludge.

➤ Flowrox GeoBox is based on sludge or water with flocculated solids being pumped into a geotextile bag that effectively retains the solid fraction while allowing water to pass through.

A water-tight floor construction with a drain valve enables closed and clean filtration and dewatering process. For cold climate the unit can be isolated and heated. Flowrox GeoBox is compatible with Flowrox Smart Solutions™.

Flowrox GeoBox is suitable for:

- Sewage sludge dewatering
- Tailings dewatering
- Concentration of oily sludge
- Filtration and dewatering of precipitated solids and impurities, clay, sand, and other fine particles

## ➤ Chemical Dosing and High Performance Pumping

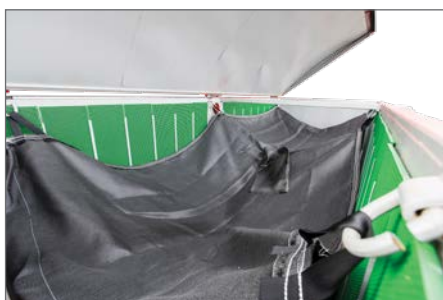
Flowrox high performance Packaged Pumping Systems™ and transfer pumps complete the Flowrox GeoBox filtration/dewatering unit.

## ➤ You Can Achieve Over 90 % Yearly Cost Savings

Geotextile filtration can remarkably reduce the costs related to waste handling. Depending on the quality of the sludge you can remove up to 90 % of water. To avoid major investments, we can also provide full operative service based on monthly or handling fee.



Flowrox GeoBox roll-off unit saves water and makes transport of waste much easier.



Geotextile bag effectively separates solids from water.



The Flowrox GeoBox units can be isolated and heated for areas with colder climates.

## YOUR BENEFITS

Avoid major investments



Process and transportation in one closed container



Mobile unit: no need for permanent installations



Cost efficient dewatering



High versatility



# All-in-one roll-off geotextile filtration and dewatering unit ”

## ➤ Flowrox GeoBox Roll-Off Unit Includes:

- Container and geotextile bag
- High performance Flowrox LPP-T slurry transfer pump
- Chemical dosing Flowrox LPP-D pumps
- Flocculation reactor module (1000 mm and 2000 mm options)



Flowrox LPP-D chemical dosing and LPP-T slurry transfer pump.

## ➤ Enhance Flowrox GeoBox Performance with Flowrox Smart Solutions

Flowrox Malibu™ is a new way to combine your process and Industrial Internet of Things (IIoT). Remote access allows you to manage, measure and analyse the following.

### Filling pump and flow monitoring:

- Process values e.g. flow, temperature and pressure
- Pump condition monitoring and preventive maintenance

### GeoBox filtering:

- Estimated lifetime, notifies before new filter bag is required
- Current filter bag fill level
- Notifications about GeoBox condition



Flowrox Malibu portal is user-friendly and easy to navigate.



### CUSTOMER CASE 1: Power plant MEDIUM: organic sludge, 2000 tons per year

Power plant had to transport all produced sludge to the landfill with vacuum trucks which resulted in big annual expenses of 345 000 €. After the plant decided to dewater the sludge with GeoBox™, the dried sludge can be burned at the plant. Costs are cut in half and the plant it is saving more than 170 000 € every year.



### CUSTOMER CASE 2: Stainless steel plant MEDIUM: oily wastewater treatment sludge, 700 tons per year

Every year the stainless steel plant spent 260 000 € to handle its oily sludge. It had to be first transported by vacuum trucks and then treated at a hazardous waste treatment plant. Then the GeoBox™ stepped in to dewater oily sludge. Now, the total annual savings are over 130 000 € since the plant is left with only 60 tons of dried sludge, which is burned at pyrolysis waste treatment. Additionally, transport is easy as GeoBox™ is designed as a roll-off unit, ready for pick up.



Flowrox Oy  
P.O. Box 338, FI-53101 Lappeenranta  
Finland  
Tel. +358 201 113 311

[www.flowrox.com](http://www.flowrox.com)  
[info@flowrox.com](mailto:info@flowrox.com)

