

## GRIT AND GREASE REMOVAL BRIDGE

Leader in the design and the manufacturing of sludge treatment systems for drinking water, waste water and sludge, EMO is present in 5 continents of the globe and holds more than 2500 recommendations to its credit since the company's creation in 1985.

The grit and grease removal bridge OMEGA GGRB is designed to be installed in any rectangular pre-treatment installations of wastewater treatment plants.

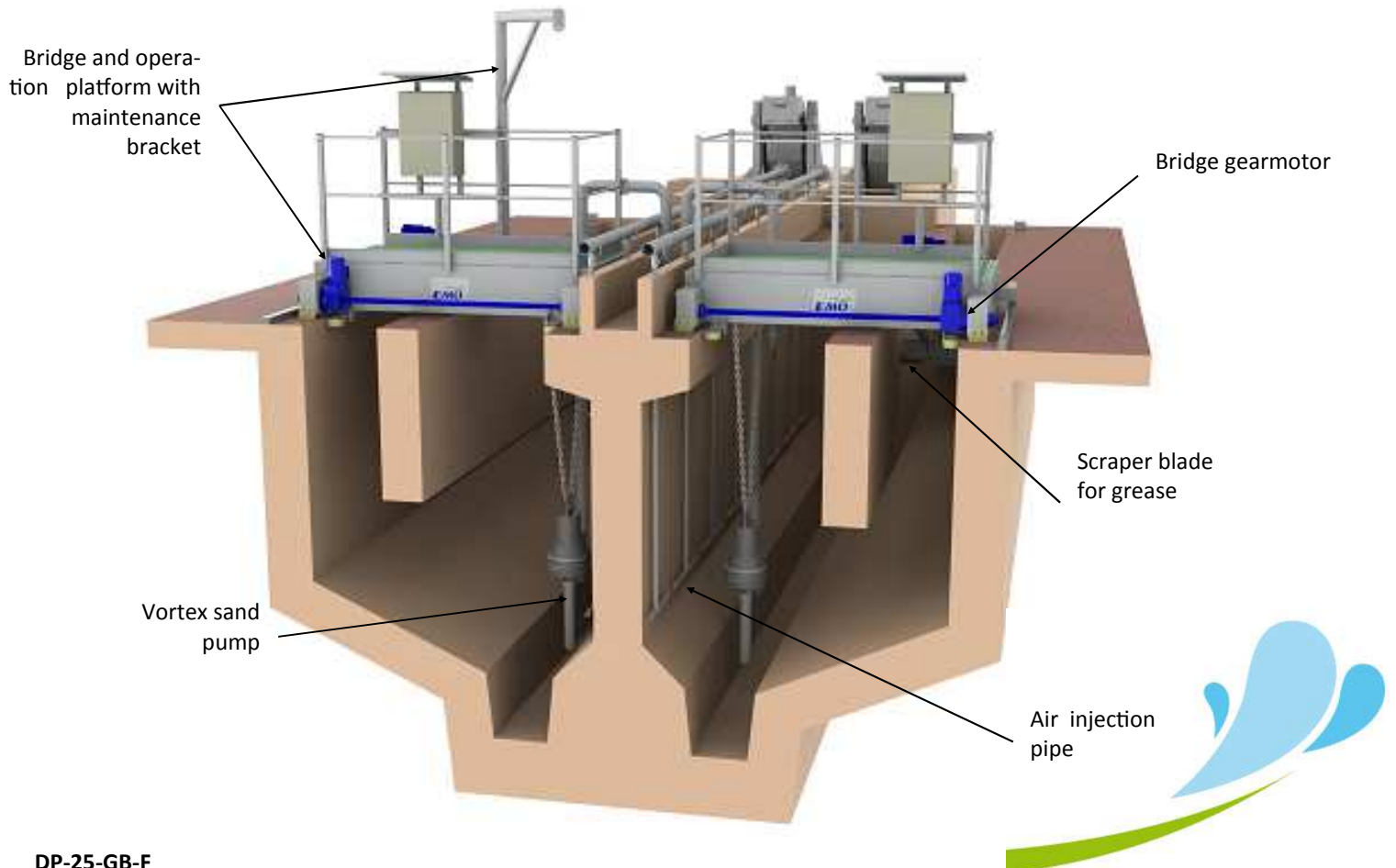
This technology is used for the treatment of municipal or industrial wastewater which holds sand and greasy particles and where it is important to extract them in order to protect the downstream biological process.



### Operating principle

The grit and grease removal bridge EMO GGRB is composed of, a structure in hot dip galvanized steel (alternative in stainless steel or aluminium upon request). The grease removal is achieved by means of surface scraper. Air injection in the water helps the grease to float at the surface. The settled sand is removed by means of a sand pump travelling together with the bridge.

- For floating the grease, air pipes are installed along the channel length.
- The bridge, supporting the surface scraper and the sand pump, is moving slowly to ensure a good cleaning of the whole tank.
- Once floating, the greases are concentrated on the surface of the tank where it is scraped on the entire length of the tank.
- The sand (heavy) settles down at the bottom of the tank and is turned toward the suction trap.
- The sand pump is moving lengthways into the tank as it is fixed on the bridge.
- While it is moving, it pumps up the sand to the sand classifier out of the tank.



## Installations



The grit and grease removal bridge Omega GGRB from EMO is designed to be used in grit and grease removal installations from municipal and industrial wastewater treatment plants.

