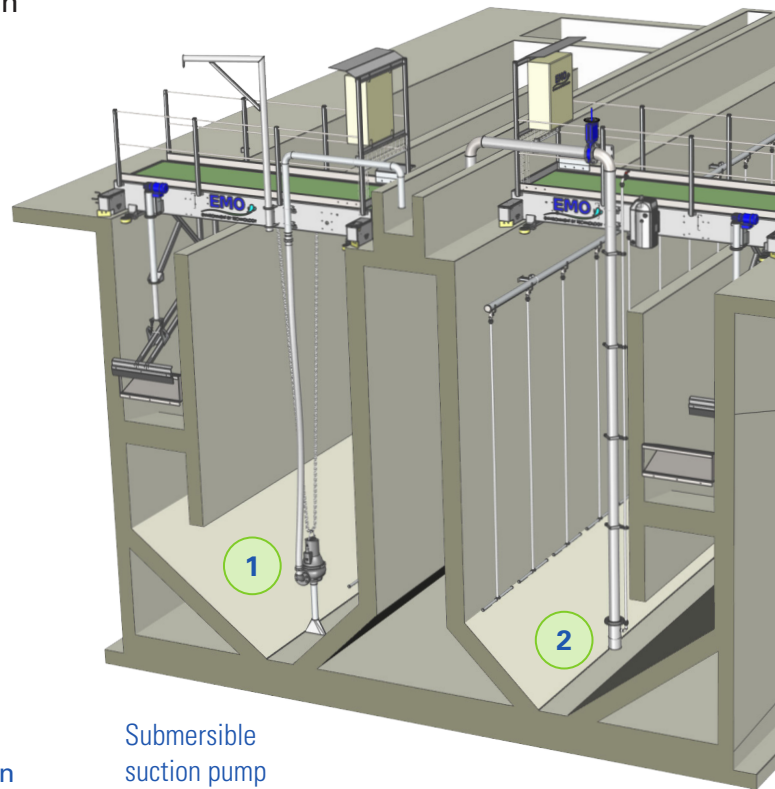




The **grit and grease removal bridge OMEGA GGRB** is designed to be installed in any rectangular pre-treatment installations of wastewater treatment plants. This technology is used for the treatment of municipal or industrial wastewater which holds **sand** and **greasy particles** and where it is important to extract them in order to protect the downstream biological process.



Submersible suction pump

Air lift suction system with compressor mounted on the bridge



ADVANTAGES

- Efficient grease and sands removal by continuous scraping and pumping
- Cost-effective operation (fully automated process)
- Hot dip galvanised support bridge (available in stainless steel or aluminium on request)
- Different configurations possible for sand removal: **submersible pump (1)** or **air lift suction system (2)**.

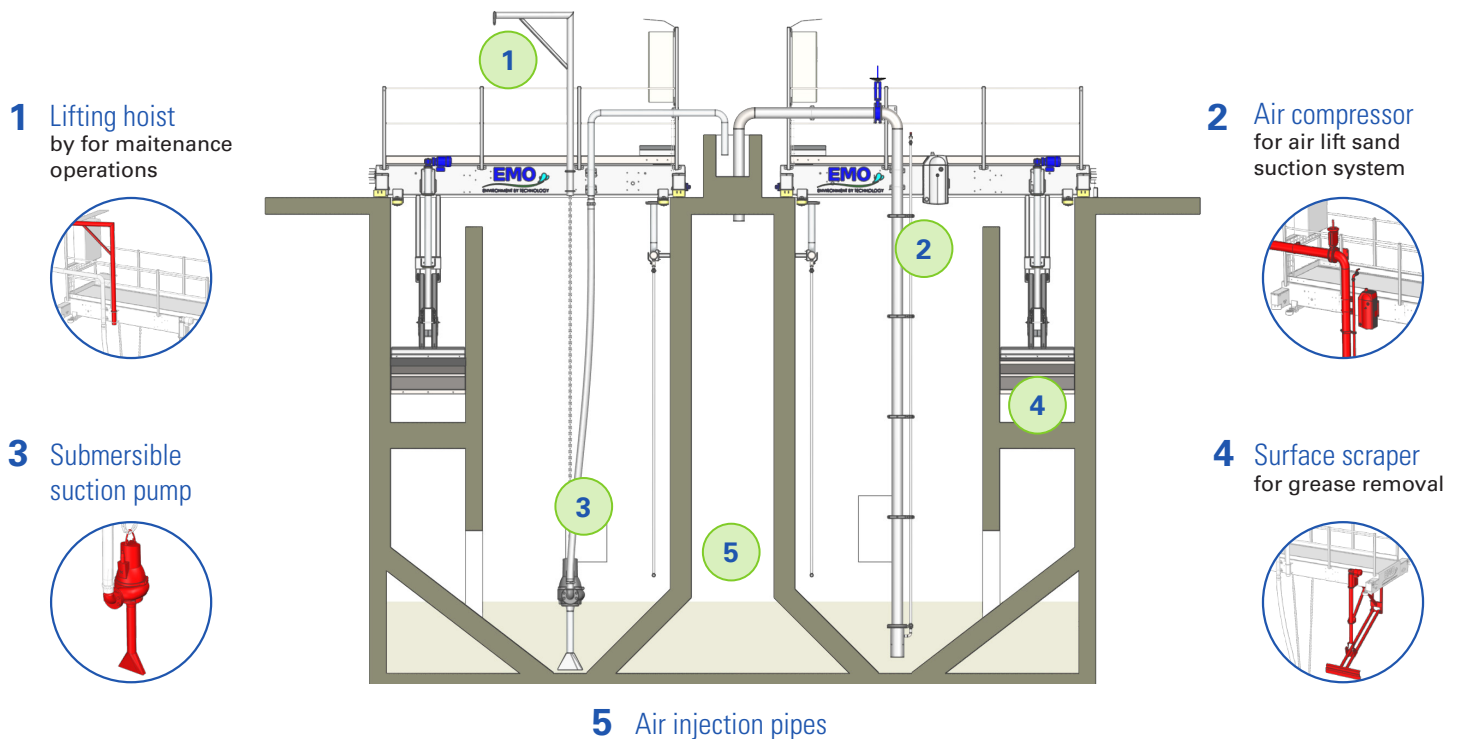




OPERATING PRINCIPLE

The **grit and grease removal bridge OMEGA 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.



RANGE & OPTIONS

The **grit and grease removal bridge OMEGA GGRB** can comply with:

- bridge length from 2 to 10 m, depending on single or double channel version (with or without central support),
- longitudinal displacement up to 30 m with power supply on trolley or cable chain.



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