

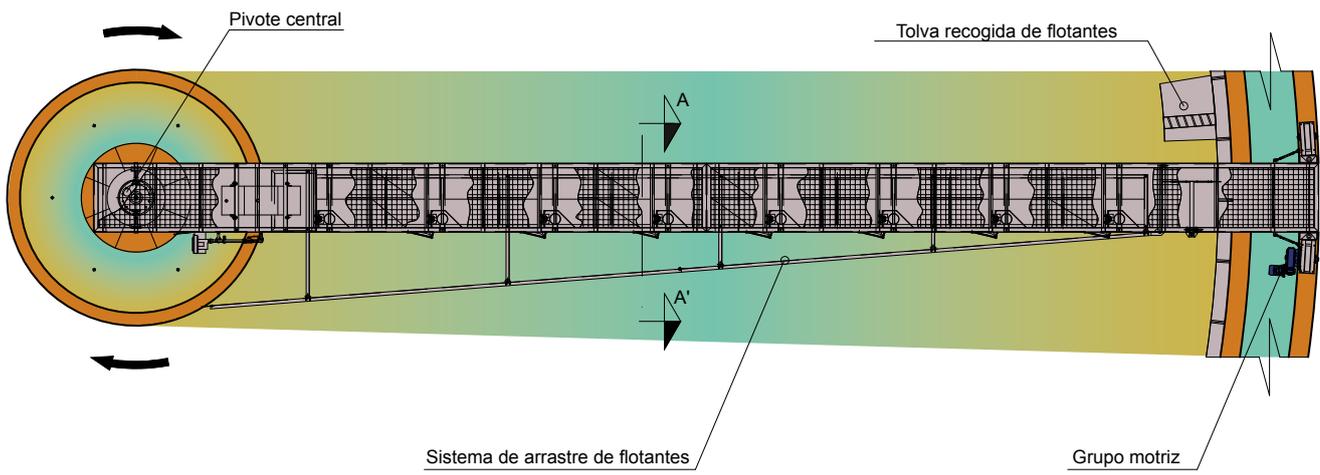
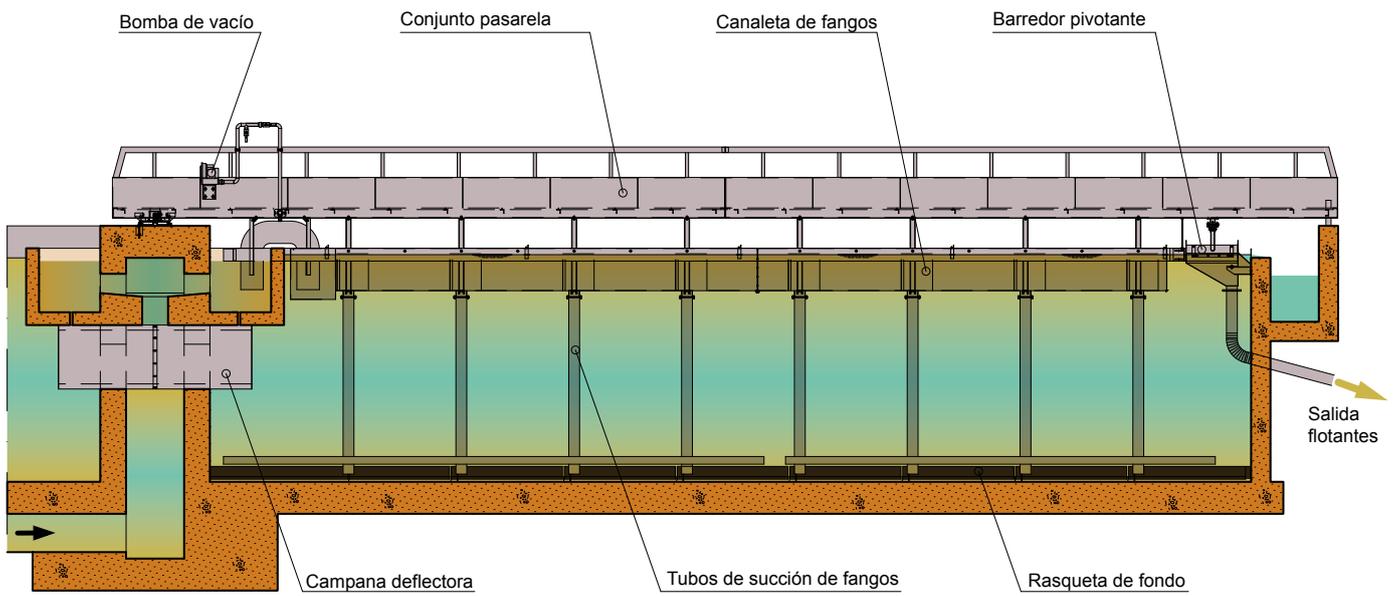
CLARIFYNG SCRAPER BRIDGES

SUCTION DECANTING BRIDGE - CIRCULAR ENCLOSURE Type: MR39

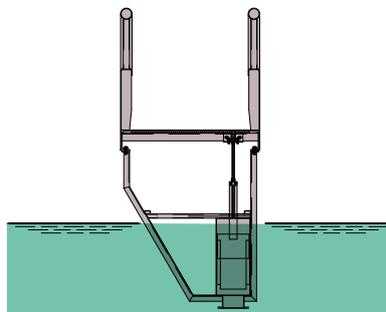
This equipment is designed for mechanical separation of solids and suspended particles, which are decanted due to their nature or with the help of a flocculant reagent, in the primary and secondary decanting processes of water treatment plants. Sludge is extracted via a suction system that hoists them to the outside.

Descriptions and Features:

- **Walkway unit.** One end rests on the central pivot and the other one is connected to the motorised unit. Built in drawer-like steel plate and tubular profiles that also serve as a handrail. Galvanised metal or GFRP lattice work for personnel access.
- **Motorised unit.** Located on one end of the walkway and consisting of a geared motor and two wheels, one powered, one guided with red-band wheels and supported by ball bearings.
- **Central pivoting support.** This articulated unit allows circular movement of the walkway. The unit rests on one end of the walkway and, thanks to a large diameter bearing, supports the possible efforts due to irregularities of the terrain. It has an integrated contact ring collector for the electrical supply of the motor.
- **Central deflector.** Welded in steel plate. Its purpose is to slow down water inflow to the decanter, resulting in even distribution throughout the entire enclosure.
- **Bottom scraper.** With adjustable elastomer profile that carries out the sweeping, attached to a saw tooth shaped plate that conducts the sludge towards the suction pipes.
- **Suction pipes.** These pipes suction the sludge from the bottom of the enclosure and hoist it to the inside of the sludge gutter while supporting the bottom scrapers.
- **Sludge gutter.** Built in steel plate, it collects the sludge suctioned by the suction pipes and conducts it to the trap, which conducts it to the central sludge gutter for removal. It hangs from supports on the walkway and has regulation knife gates for sludge inflow.
- **Trap.** Element that serves to transfer sludge from the sludge gutter to the central concrete channel, for extraction.
- **Vacuum pump.** Primes the trap, which serves to transfer the sludge between the gutters. It is installed on one side of the walkway and connected to the upper part of the trap.
- **Floating substances dragging system.** Consisting of the surface sweeping scraper that has a special design to move the floating substances to the outer end, where a pivoting arm introduces them inside the collection hopper.
- **Floating substances collection hopper.** Installed on the outer end of the enclosure and directly anchored to the foundation work. It can be manufactured in two versions, overwater (standardised) or underwater.



SECCION "A-A"



* Detalle de la canaleta

