

# CLARIFYNG SCRAPER BRIDGES

## DECANTING BRIDGE - LONGITUDINAL ENCLOSURE Type: MR46

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 with a slightly inclined slab and a scraper that conducts it to the final collection basin.

### Descriptions and Features:

- **Walkway unit.** Built with steel plate, drawer type and with stainless steel railway on both sides. Galvanised metal or GFRP lattice work for personnel access. Connected motorised unit on both sides of the walkway.
- **Motor drive.** Consisting of a geared motor that operates the primary axle. Power wheels mounted on its ends. These wheels, like the drive wheels, are completely metallic so they can move through rails.
- **Guiding unit.** Through rails anchored to the top slab, on both sides of the side walls and along the longitudinal direction of the enclosure.
- **Bottom scraping system.** Scraper built in steel plate, with an adjustable elastomer built on it for a perfect adaptation to the curb of the enclosure. Motorised hoisting operation.
- **Floating substances elimination system.** Consisting of two scrapers that sweep the fat area, moving the fats towards one of the ends of the enclosure where they are poured into a hopper. The layout of the scrapers eliminate the possibility of dead areas. The entire unit hangs from the walkway. The operation is mechanical but, depending on the side of the scrapers, it can work via electric traction.
- **Electrical supply system.** To be installed along the enclosure and on one external side. Provides electrical supply to the manoeuvring cabinet, based on a foldable cable attached to carts that move along a metallic guide.
- **Control equipment** (optional). A switchboard controls the entire automatic operation of the equipment, with inductive end stops that control the forward and backward movement of the unit. It also operates the bottom scraping system according to the bridge movement direction.



