THICKENERS

THICKENER Type: MR21

This equipment, designed for installation in circular enclosures, mechanically separates the sludge, which is decanted due to its composition or with the help of a flocculant reagent, in the thickening processes of water treatment plants.

Descriptions and Features:

- Power unit.
 - (1) **Simple unit**: Central operation, anchored to the walkway, consisting of a geared motor unit that acts directly on the main axle of the thickener.
 - (2) **Control head**: Central operation device anchored to the walkway, consisting of a geared motor and a set of parts that is used to elevate the thickening mechanism in case of high concentrations of sludge.
- Main axle. Connected to the power unit. Through a flanged connection, it transmits all
 the effort to the bottom scraper and thickening pick units. The scraper holder structure is
 anchored to the lower part of the axle.
- Scraper holder structure. A steel plate structure consisting of two radial arms on opposite sides of the circle and properly braced that the picks and scrapers are mounted on.
- Thickening picks. The profiles used to break the floc are built in steel plate screwed to the scraper carrier arms.
- **Bottom scraper**. With adjustable elastomer profile that carries out the sweeping, anchored to a steel plate that conducts the sludge to the central basin.
- **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.
- Guiding system. Built in steel plate and technical plastic, which serves to maintain the central axle in a vertical position during its rotation.

Optional elements:

- Central walkway. Diameter fixed walkway that supports the entire thickening 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.
- Floating substances dragging system and deflector. Consisting of the surface sweeping scraper that, due to its design, moves the floating substances to the outer end, where a pivoting arm introduces them inside the collection hopper.
- Electronic overload clutch. To control overloading.















