



### Characteristics:

Gravity sludge thickener PACIFIC is used for the solid concentration of decanted solids and clarification of liquids.

It primarily consists in a tank (generally concrete) of circular plant with troco-conical bottom sloping into this tank. On this tank used to assemble mechanical equipment to the sludge collecting .

The raw water are powered by the upper part to the power cylinder situated in the center and at the top, and at the top part, it is almost completely submerged. This cylinder has the task of eliminating possible turbulence in the flow of the fluid input and provides a downward direction.

The decanted sludge to the bottom of this equipment and are snaps into the cone from which will be evacuated. Already clarified water from and remains of solids, overflows the rubbish dump (sawtooth 90°) to a collection channel to continue the relevant process.

### Composition:

- Static Gateway.
- Vertical axis and sweeping arms.
- Motor Group.
- Sweeper sludge pit.
- Central Campana supply.
- Spillway.

## Gravity sludge thickener PACIFIC

## PRODUCTS

### General characteristics:

**Walkway.-** Fixed diametrically support throughout the whole thickener. Built from rolled steel or civil site, rails and embedded net, is implanted in the enclosure walls.

**Vertical axis and barrido.-** Suspended arms control head and solidarity with her, built in tubular profile with corresponding flanges and stiffeners, sweeping blades welded to the arms, neoprene plates with are bolted to the blade reinforcement, construction set that computer will become hot dipped galvanized carbon steel or stainless steel.

**Powertrain -** Central drive consists of a gearmotor that directly attacks the main shaft. Must be equipped with a torque limiting device for protection against overload.

The equipment is designed to minimize mechanical and aerodynamic noise source, the operation may also be continuous or sequential.

**Sludge sweeper.-** Fixed at the bottom of the vertical shaft by screws, used to hole cleaning sludge and is built from laminated plates and profiles with corresponding reinforcements, carbon steel construction hot galvanized or stainless steel.

**Central supply hood -** Mounted on the metallic walkway or civil work by threaded rods, wrapping the vertical center axis, which is submerged in the liquid almost completely. It is built in hot galvanized carbon steel or stainless steel.

**Spillway -** Located on top part of the peripheral canal from clarified water collection, built from aluminum or stainless steel, with sawtooth notches in order to facilitate regulation, attachment is effected directly to structures.

### Introduction:

The arrival of the sludge can be thickened to be below bottom or from the top, if there is danger of obstruction of pipes. (Upper Recommendation). Thickened sludge evacuation is performed generally by a pipe located under the bottom. In some difficult cases, you can evacuate the mud at the top.

It is very useful to have, under the background a access gallery.

In general, should be discouraged thickeners provided with a central pit sludge without an scrapers and does not occupy more than one sector, as well as those whose sludge extraction is carried from the wells located in the periphery.

The actuation of the devices the thickened sludge removal, can be automated using a programmer or concentration analyzer.

### Composition:

- Walkway.
- Extension.
- driving carriage.
- Kingpin.
- Scrapers background and hangers.
- Moving thickening piquettes
- Central hood deflector.



Gravity sludge thickener PACIFIC

### General characteristics:

**Walkway -** Supported by one end in the central and several pivot on the other with the drive cart, built in carbon steel profiles with metal framework to step and railing.

**Extensión of walkway -** Articulated assembly in the gateway itself, serves as one of the clamping arms supporting thickeners scraper thickening bottomhole pegs.

At one of their ends, is driven car, thus being with the walkway, a diametrical set.

**Driving carriage -** welded construction consists of a driven wheel and conductive, which is driven by a direct drive gear motor.

**Conducted carriage -** welded construction consists of two driven wheels. It is integral to the whole runway extension.

**Central Pivot -** Essentially consisting of a large diameter bearing, an integrated system where one end is supported on the main walkway, and making brushes collector for the electric current. Sealed arrangement designed to support all efforts that may cause small irregularities in the raceway.

**Scrapers background and hangers -** Neoprene scrapers mounted on carbon steel profiles by hot galvanized soldiers turn to the corresponding support frames. Two supports, one suspended from the primary walkway and the other one in the extension, moving the two systems of scrapers.

**Moving thickening piquettes -** made of rolled steel, are fixed to scrapers holder (frame), for subsequent turning with the bridge. (frame), resulting touring with the bridge.

**Central hood deflector -** made of steel and reinforcing profiles, whose mission is to reassure the water making a distribution throughout the enclosure place.

## PRODUCTS

## Perimetral sludge thickener PACIFIC II

### Characteristics: Perimetral sludge thickener PACIFIC II

The arrival of the sludge which has to be thickened can be made by the lower or upper part, in case there exists danger of piping obstruction. (Upper recommendation).

The thickened sludge evacuation is realized, generally, by a pipe located under the bottom. In some difficult cases, sludge can be evacuated from the upper part.

Is very useful to have, under the bottom, an access gallery.

In general, thickeners provided with a central sludge ditch without scraper device and which do not occupy more than a sector, must not be recommended, as well as those whose sludge extraction is performed from wells located in the periphery.

The operation of the thickened sludge extraction devices can be automatic using a programmer or concentration analyzer

### General characteristics:

Walkway.- supported from an extreme in the central pivot, and coordinated from the other extreme with the motive car, built in carbon steel, with metallic; framework for walk and handrail.

Walkway prolongation.- Articulated assembly in the walkway, it fastens one of the thickening arms which support a bottom scraper-thickening piquet assembly.

In one of its extremes, the conducted car is coordinated, turning out together with the walkway, a diametral assembly.

Motorized car.- of welded construction, it is constituted by a conducted wheel and another conducting wheel, which is powered by a direct powering engine drive.

Conducted car.- of welded construction, it is constituted by two conducted wheels. Goes coordinated with the walkway prolongation assembly.

Central pivot.- Essentially constituted by a rolling of grand diameter, an articulated set where an extreme of the main walkway is supported, and the brush collector for the electrical outlet. Fixed assembly designed to support all kind of efforts, which may provoke the small irregularities of the rolling road

Bottom scrapers and suspension supports.- neoprene scrapers built- in over hot dip galvanized carbon steel profiles, welded to the correspondent support frames. Two supports, one hanged from the main walkway and the other in the prolongation, they shift the two scrapers systems.

Motorized thickening piquet.- built with laminated steel profiles, fastened to the scraper carrier (frame), therefore, rotating with the bridge.



### Composition:

- Walkway.
- Prolongation.
- Motorized car.
- Central pivot.
- Bottom scrapers and suspension supports.
- Motorized thickening piquet.
- Deflector central bell.

