

Picket Fence Thickener (Gravity Thickener).

PFT's for circular tanks are predominantly centrally driven. Design takes into account process, tank diameter, design and sludge loads.



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Picket Fence Thickener (Gravity Thickener).

These machines are fabricated in robust designs usually made of stainless steel. Steel bridges or concrete slabs are used to carry drive unit system. There are a variety of configurations, with or without supplementary functions.

Advantages

We have standardized manufacturing models to enable us to use modern efficient methods to ensure the highest quality products. Units have a design life in excess of 20 years.

The strong, rigid and torsion resistant design complies with or exceeds latest design standards and can handle high sludge loads.

Below water AISI304 stainless steel is typically used with an option of AISI316 also available. Motor, gearboxes, bearings etc. are coated according to customer requirements and specifications.

Use

At municipal waste water recycling plants, industrial waste water recycling plants, pulp & paper mills etc. to thicken sludge increasing density of the sludge before it settles.

Function

The PFT-gate rotates and is free hanging from the bridge supported by a steady bearing at the bottom, keeping the scraper gate aligned. The picket fence stirs the sludge during settlement and increases the sludge density.

The motored gear is assembled on a hot dip galvanized baseplate with mechanical torque limiter; the drive unit is located on a stationary bridge or concrete slab.

The center shaft is directly coupled and driven by the drive unit system.

The center is made with tubular design and the shaft's lower part is equipped with a replaceable bottom bearing made of polyethylene, which operates against a steel stub shaft. The bearing is lubricated by process water.

From the central tube horizontal scraper arms with angled scraper blades are fitted for bottom scraping to remove sludge from the entire floor to the sludge pit in the center of the tank.

The drive unit in both cases comes either with mechanical or electronic overload protection.

Specifications

Power output range	0.18-2,5 kW
Motored gear	SEW, Nord or by client demand
Steel parts	Stainless steel configurations: AISI304, AISI316L, EN1.4547 (Super duplex) S235JRG hot dip galvanized or GRP grating on walkway
Size configuration	All sizes
Types	VAT PFT – Picket Fence Thickener
Overload protection	Electronic - Torque limiter ELFI M20 Mechanical - Disc Spring package



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