

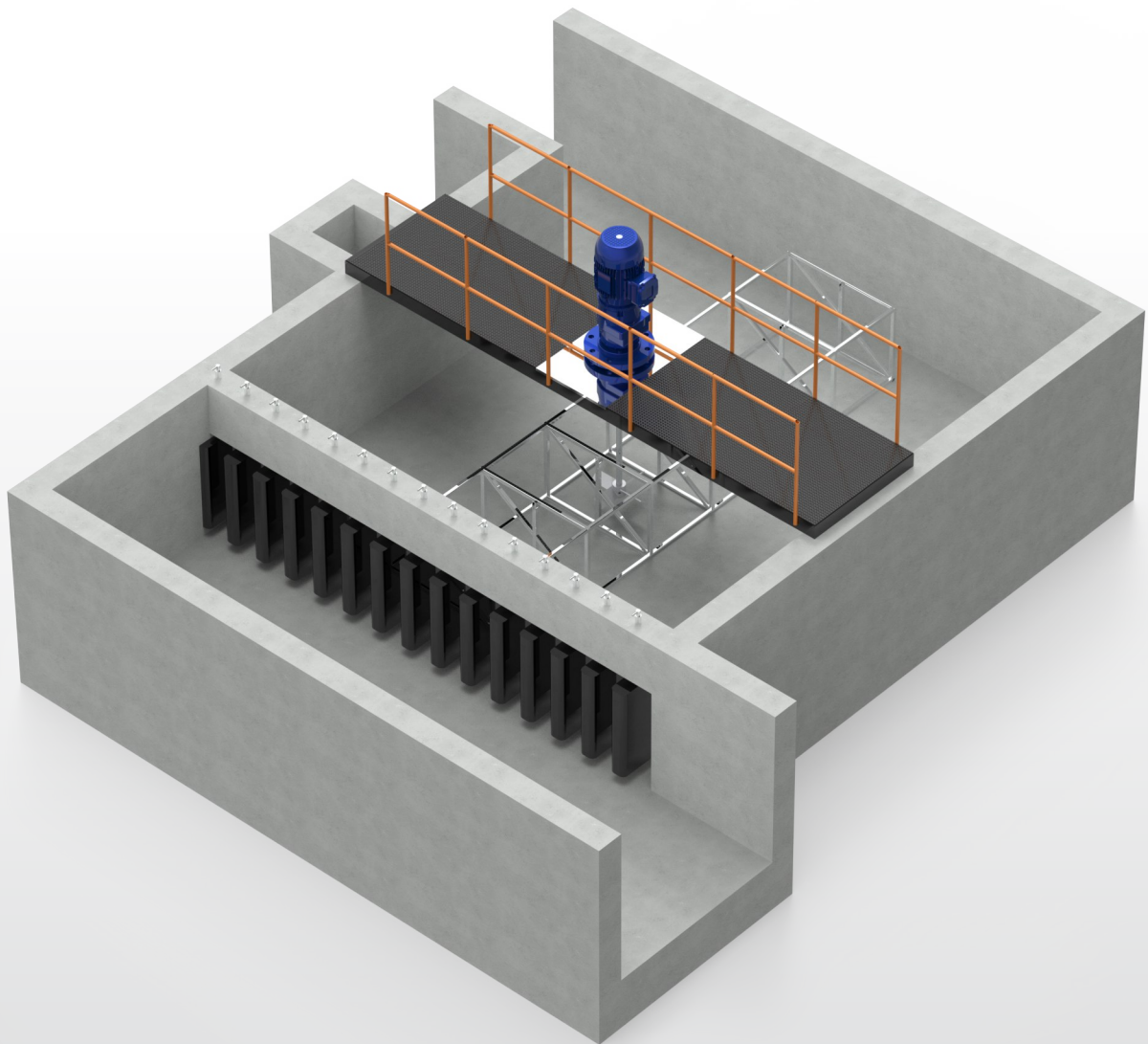


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Water Technology Solutions

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GRIT MECHANISM

DETRITOR



GRIT MECHANISM

DETROITOR

Grit removal system is an essential component of wastewater treatment unit and installed before the sedimentation tank ahead of bar screens to prevent abrasion and wear of mechanical equipment.

Adroit Grit Mechanism consists of 2 essential elements **grit settling unit and grit separation unit**. Each operates separately but in hydraulic Synchronization with one another.

Operation:

The grit settling unit or Detritor is a continuous flow tank in which the grit settles due to gravity and the water overflows through the outlet weir on the opposite side. The settled grit is scrapped by means of a scraper mechanism towards the opening on the classifier sidewall at the bottom. Two or more Scraper arms are provided for pushing the grit into the bottom side wall opening to the cleaning chamber.

The collected grit is thoroughly washed and is delivered from the top of the reciprocating classifier through a chute for disposal. Washed organic liquor, lying in the classifier, is returned to the Detritor collection chamber via the organic return pump/mixer.

Features:

- High torque reputed make gear drive with overload protection.
- Heavy duty drive head.
- Low cost of Capital, operation, and maintenance.



Technical Specification:

- Size – Up to 10m x10m.
- MOC – Mild Steel, Stainless Steel (AISI 304 & AISI 316) or as per customer requirement.