



Grit Separator during operation



Grit Separators with inclined shaftless spiral

GRIT TREATMENT SYSTEMS

High organic content in the grit shall be a problem for recycling and disposal of grit. Reduction of the organic content is the primary aim in order to make a secure disposal or recycling. To reach this aim in an economic way, the treatment process must be tailored to meet the requirements. A suitable process must be selected and modified relative to the conditions. Grit Treatment Systems are used to reduce the water content inside the collected grit-water mixture. Also the organic matter is kept in suspension to avoid to be discharged with grit.

Astim offers different equipment used for this purpose;

Grit Separators

Grit Separators remove precipitates and heavy matter in municipal and industrial clarification plants by an inclined rotating shaftless spiral. Turbulence is avoided by special construction of the hopper.

Degritters

Degritters are mostly used after central driven grit removal systems. It is consisting of a reciprocating multi rake mechanism which is working in an inclined narrow channel. Here reciprocating rakes move the grit up the tank incline with a rolling action that releases entrained organics.

Grit Cyclones

Grit Cyclones are used for washing out the organic matter. As the grit water mixture enters the tank tangentially, circular flow is obtained and the grit content therein is separated and settled at the bottom of the tank. The settled grit is transferred into a container or lorry. Grit Cyclone can be either mounted on the travelling bridge or near the concrete tank.



Grit Cyclone with Travelling Grit Scraper Bridge



Double Degritter during installation

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