

WESTECH



HEADWORKS EQUIPMENT

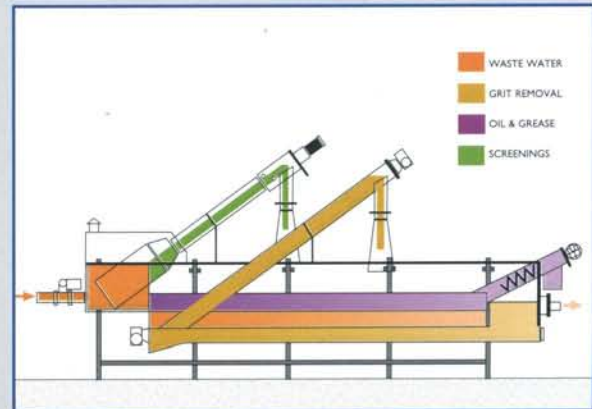


SCREENING & GRIT REMOVAL

Wastemaster™

A WASTEMASTER system can be ordered to address screening, grit removal, grease removal, or any combination of these functions. It can be installed as a septage receiving station or headworks pre-treatment station. The full combination WASTEMASTER is an "all-in-one" Shaftless Screw system. It screens, washes, separates grit, dewateres and compacts solid materials.

It addresses limited space requirements and has no mechanical parts in contact with the wastewater or solid material to be treated. It combines both low maintenance and low operating costs. WASTEMASTER is inexpensive and easy to install. The system features *Shaftless Screw Conveyors* constructed of high strength hardened steel with a stainless steel tank and covers.



Channel Mitt™



The Channel Mitt Fine Screen washes and dewateres screenings in one simple unit. It can handle up to 8 MGD and swings up and out of the channel for easy maintenance. The drive unit features a low HP, energy-efficient motor with a direct coupled reducer - no chains or sprockets to maintain. The *Shaftless Screw Conveyor*, constructed of high strength hardened steel has no lower bearings to maintain. It features replaceable brushes on the trailing edge for longer life. The brushes are easily replaced in 180-degree sections without removal of the screw. The brushes clean the screen with each rotation and an optional spray wash further cleans the screenings while returning organics. The compaction zone increases dewatering capabilities, has a liquid return line, and hinged cover plate with a motor safety cut-out switch. The entire housing is stainless steel.

CleanFlo™ Continuous Screening



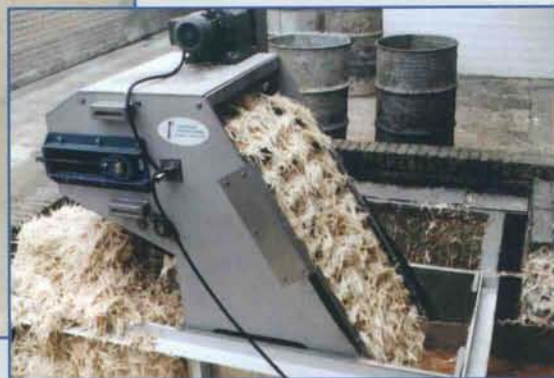
The CleanFlo™ is a continuous belt-type finger screen designed to remove debris from water and wastewater. With capacities to 100 MGD and discharge heights exceeding 50 feet, CleanFlo™ screens can handle the most demanding applications. These units are designed and built to customer specifications and are easily customized for particular needs. Retrofit installations involving deep or wide channels present no difficulty for the CleanFlo™.

The filter elements are molded of long lasting ABS plastic. Filtration capabilities range from 0.02"-1.2". The screen frame, rollers, and shafts are of machined stainless steel construction.

The self-cleaning design of the CleanFlo™ retracts the ABS fingers between each other cleaning the screen belt as it advances back down into the channel. A rotating neoprene wiper blade, located at the discharge, cleans any remaining debris from the finger elements.

CleanFlo™ units are supplied with ultrasonic level sensors which allow for intermittent operation. The screen is activated only when captured debris causes the water level to rise, resulting in decreased operational costs and lower maintenance requirements.

CleanFlo™ screens are designed for easy maintenance and years of trouble free service. They are easily customized to application requirements.



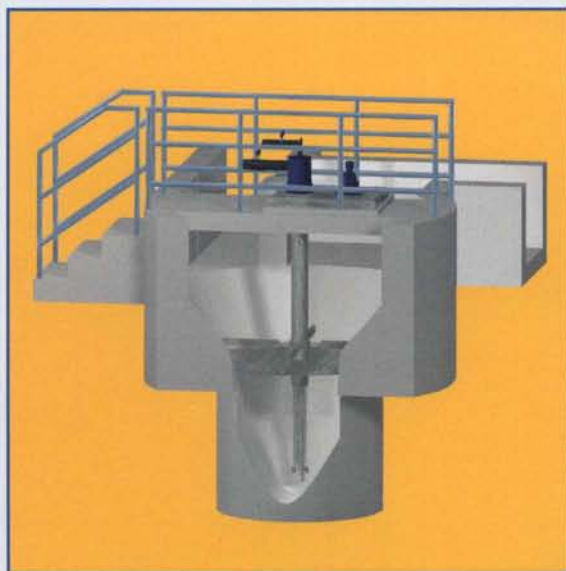
Grit Chambers

WesTech Engineering offers two types of grit chambers for your headworks applications. The first utilizes an air flow system; the other an induced vortex system.



AERATED GRIT CHAMBER

Air is introduced into a large draft tube and creates a rolling action in the chamber. This rolling action suspends the lighter organic materials which are removed through the overflow box. Heavier grit settles to the steep-sloped bottom where it is removed by an airlift pump and transferred to the grit classifier (Gritt Mitt™). WesTech's Aerated Grit Chamber offers a wide flow range, offers low headloss, and improves downstream process through increased dissolved oxygen. The aerating effect means removed grit is generally clean and free of putrescible content.



VORTEX GRIT CHAMBER

WesTech's Vortex Grit Chamber use a forced vortex from a tangentially fed influent to drive the denser particles to the center of the tank where they settle out. The vortexing action is aided by rotating paddles which lift the lighter organics. Grit settles in a lower chamber where it is removed by an airlift or mechanical pump and transferred to the grit classifier (Gritt Mitt). The Vortex Grit Chamber features a small footprint, low headloss, and has no submerged mechanical parts. It provides high grit removal efficiencies, even with high flows.

Gritt Mitt™

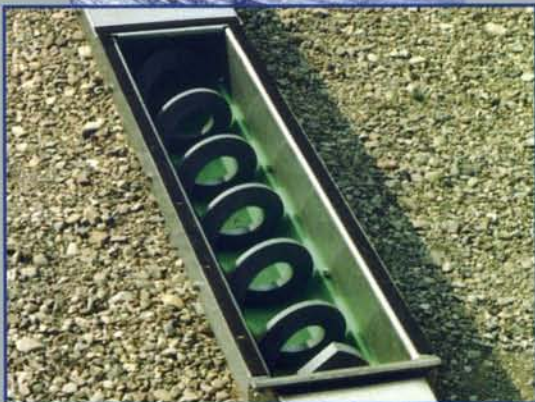


Gritt Mitt is a grit classifier that's a cut above. Its compact design requires a small footprint, but features a wide settling chamber. It has no submerged bearings and uses WesTech's *Shaftless Screw Conveyor* technology for longer life and lower maintenance costs. Gritt Mitt has a flow range from 150 to 440 gpm and no special excavation or concrete work is required, which means a low cost installation. Gritt Mitt's housing is constructed of stainless steel and the conveyor is manufactured from high strength hardened steel running on replaceable stainless steel wear bars.



When Gritt Mitt is equipped with an optional cyclone, it will remove 95% of 150 mesh grit and can accommodate much higher flows. The cyclone uses hydraulic forces for separation and has no moving parts for cleaner operation and low maintenance without fouling.

Conveyors & Compactors



WesTech's *Shaftless Screw Conveyor* technology allows design of a conveyor system to fit the exacting needs of each Headworks or for sludge transport. The WesTech conveyor system, which can be hermetically sealed for odor control, is powered with a low HP, energy efficient drive unit and has no shaft or lower bearings to maintain. The screw is constructed of high strength hardened steel which is housed in a stainless steel trough and cover. The conveyors are available in any length and can be driven from either the leading or trailing end. The system conveys any non-abrasive material and utilize UHMW trough liners for longer life. Conveyor systems can be designed for efficient material movement on a horizontal plane or at any incline including totally vertical.



WesTech's *Screening Compactor* systems are designed for material transport, enhanced dewatering, and compacting material originating from a bar screen or other primary screening device. It can reduce dry-solids volume up to 40%. The system features a hinged cover plate with motor safety cutout switch for easy inspection and a liquid return line. The unit may be equipped with an optional continuous bagging unit for clean and odorless disposal of compacted screenings.

**WesTech
Products**

- Clarifiers
- Digester Covers
- Dissolved Air Flotators
- Erection Services
- Flocculators
- Oil/Water Separators

- Laboratory Test Equipment
- Pilot Plant Equipment
- Polymer Dosing Controls
- Pressure Filters

- Rotary Distributors
- Grit Removal Equipment
- Sludge Heating Systems
- Sludge Mixers

- Solids Contact Clarifiers
- Thickeners
- Vacuum Filters
- Sand Filters

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