

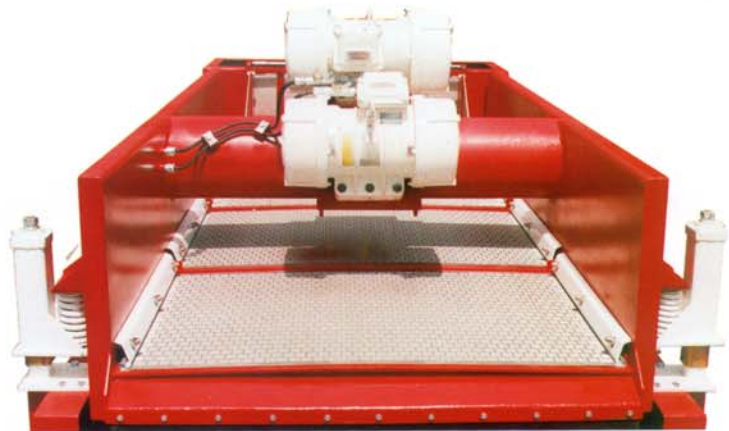
THE FTS LINEAR HORIZONTAL SCREEN SEPARATOR

The performance of the horizontal screen separator provides maximum efficiency in liquid/solids separation in high volume applications. The adjustable weir provides an even and uniform delivery. This screen was developed for high flow rates, fine solids removal, and a drip-free cake.



FEATURES

- LINEAR MOTION
- FINE SCREEN SEPARATION
- UNIFORM STRATIFICATION
- DUAL MOTOR CONTROLS
- ADJUSTABLE SPEED
- ADJUSTABLE DECK
- LONG SCREEN LIFE
- HIGH VOLUME
- DRY SOLIDS



FRONT SCREEN VIEW

For more information concerning
this system, please contact:



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THE FTS TRANSITION SCREEN SEPARATOR



Unique Weir System
with partial view of
incline screen

The Transition Screen Separator is an important new development in screening technology for liquid/solids separation and dewatering slurries and sludges.

The carefully engineered inclined deck with linear motion promotes rapid separation and removal of both fine and coarse particles from a liquid stream. Difficult and viscous liquids such as drilling fluids can be processed as a single separation stage without the need for cascading or staging over additional vibratory screens.

The screen deck consists of three panels; the feed panel is inclined at 45° in relationship to two horizontal panels. The inclined screen is the primary dewatering screen and the two horizontal screens function to further dewater and dry the material as it is conveyed to the discharge end of the screen deck.

The Transition Screen deck is designed to maximize stratification. Stratification is the major function of the mechanical forces that allows the coarser material in the slurry layer to rise and the fine particles with liquid rapidly finding their way to the screen surface and passing through the apertures of the screen.

The slurry moves across the inclined screen. The high energy impact against the screen surface produces rapid separation of the solids from the liquid fraction. A major portion of the liquid passes through the inclined screen. As the partially dewatered material is introduced to the middle screen, the slurry goes through a transition from peak acceleration onto the horizontal screen. This change in acceleration and G force allows the remainder of the liquid to be dewatered and dried.

The screen deck with the attached vibratory motors are suspended by four coil springs. These springs are mounted on a base frame. The frame has a feed box with an adjustable weir and collection pan that is positioned before the entire screen frame.

The slurry enters the feed or mud box and flows over the adjustable weir onto the inclined screen. As the slurry moves over the screen, the solids are quickly conveyed to the discharge end of the screen deck. The screened liquid is continuously directed from the collection pan to a process circuit or storage tank.

