

MudMax™

Bed-Level Monitoring System

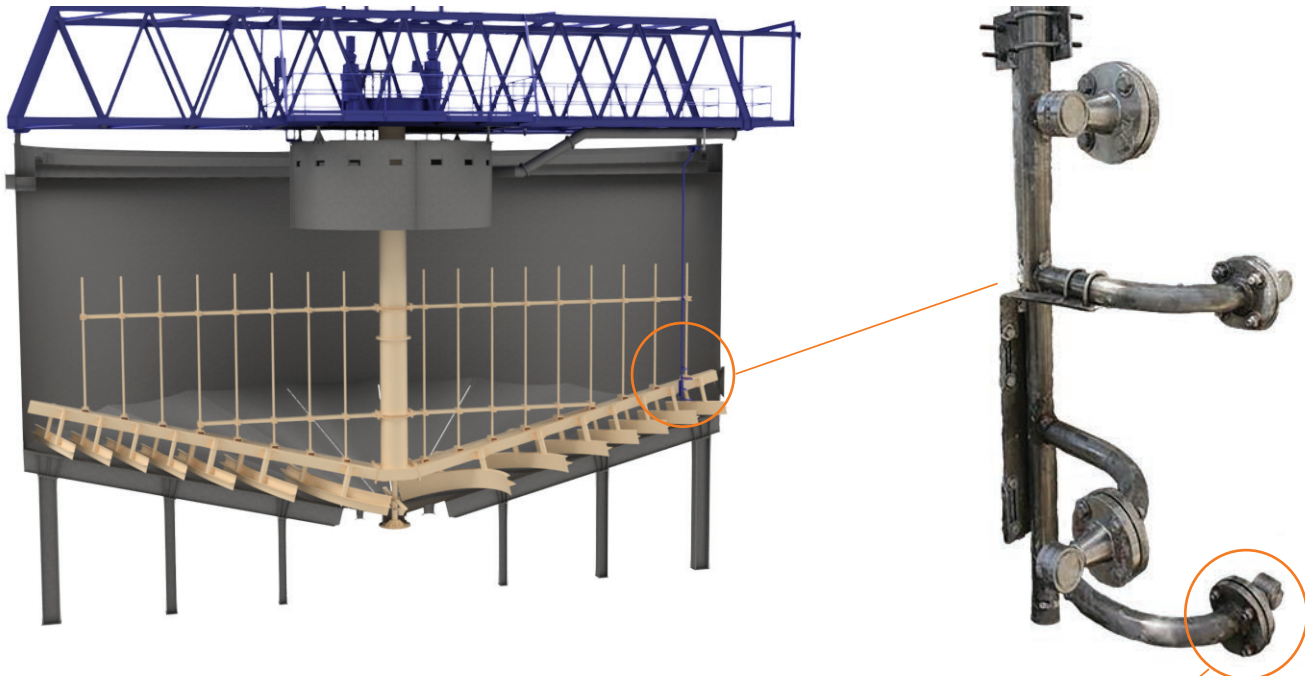


WESTECH

MudMax™ Bed-Level Monitoring System

The next-generation MudMax™ bed-level monitoring instrument provides a patented system for thickener bed detection that exceeds expectations for reliability and accuracy. Its simple design and consistent performance streamlines the process of achieving steady operation from the thickener. Controlling your system at a steady state dramatically improves the operation of the thickener and allows for optimization of flocculant dosing and underflow density.

A critical element of control is maintaining a proper bed level. Controlling the bed level produces consistent underflow density, rheology, etc. Without reliable bed level detection, operation of the thickener is less productive and more costly. Industry has been looking for a suitable solution, and WesTech experts have engineered it.



Benefits

- **Continuous Monitoring and Reliability**
 - Predictable operations
- **Cost Savings**
 - Water recovery
 - Lower flocculent usage
 - Fewer labor hours
- **Automated Operation**
 - Convenient
 - No human error

Applications

- Retrofits
- Thickeners
- CCD Circuits
- Clarifiers
- Water Treatment

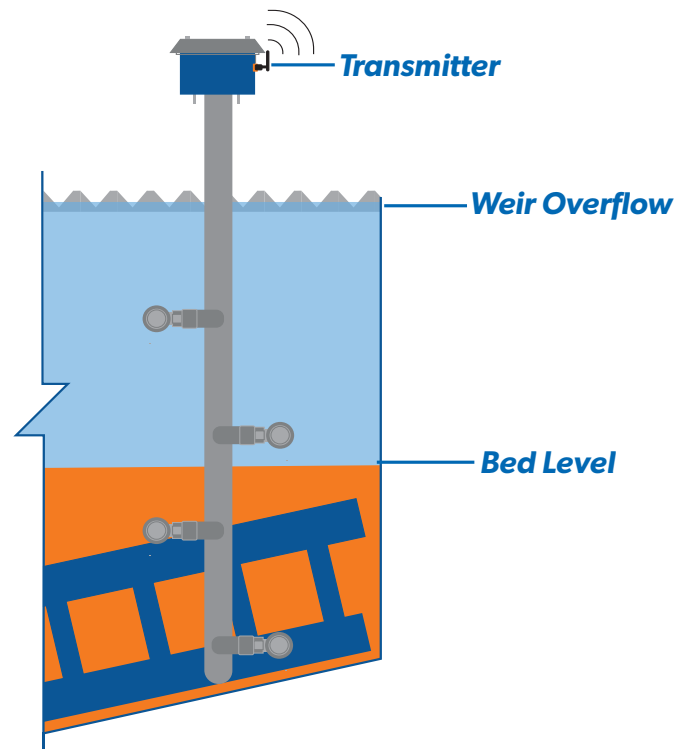
An Advancement in Thickener Control

MudMax directly measures the bed level with sensors located in the operating zone of the thickener sludge bed. MudMax is attached to the thickener rake arm and provides full 360 degree measurement of the bed by measuring the drag of the compacting solids as the rake moves around. Bed level is then calculated, accurately identifying the mud level. With WesTech's advanced design, the bed is tracked over a wide range of operating conditions and levels.



MudMax Operation

1. With the MudMax mounted to the thickener arm, data is collected as sensors move through the sludge bed.
2. Data is transmitted to a receiver mounted on the thickener bridge.
3. Data is correlated to accurately determine bed depth and transmitted to the customer's distributed control system (DCS).
4. The MudMax can relay real-time data to a variety of platforms and systems depending on plant needs.



Features

- **Retrofit on Any Thickener:** offers a variety of models and may be customized to retrofit on nearly all types of tanks
- **Direct Measurement:** measures the bed level through direct contact with the settled solids
- **Continuous Monitoring:** takes readings continuously and converts them into a bed level, providing a real-time view of the bed level height
- **Low Maintenance:** operates reliably over an extended period with very low maintenance
- **Full 360 Degree Measurement of Bed:** secures instrument to a rake arm so readings are taken as it revolves around the tank
- **Accurate Measurements:** uses multiple sensors to extrapolate an accurate measurement of the bed level
- **Easy to Remove:** designed for easy removal, so the tank is not offline for an extended period
- **Automated Tank Operation:** supplies a 4–20 milliamp output signal corresponding to the bed level; discharge rates can be automated for worry-free operation

The WesTech Advantage: For more than 45 years, WesTech Engineering has been helping mines and processing plants thicken concentrates, recover water, and prepare tailings for disposal. WesTech prides itself on a complete dedication to customer service that is backed by knowledgeable experts and years of experience.

We are process experts providing innovative and customized solutions for the minerals market.



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