

ExtremeDuty™ Sludge Mixer

Anaerobic Digester Mixer



WESTTECH®

ExtremeDuty™ Sludge Mixer



WesTech ExtremeDuty Sludge Mixers provide vigorous mixing of digester contents to prevent stratification and improve the anaerobic process.

Why Choose an ExtremeDuty?

For nearly 30 years, WesTech has been supplying mechanical sludge mixers for wastewater treatment plants. The current sludge mixer has evolved over the years as a result of WesTech striving to meet and exceed our customers' needs. The stellar performance of the durable ExtremeDuty™ Sludge Mixer is proven in hundreds of installations, with an unprecedented full five-year warranty.



ExtremeDuty Advantages

Unmatched five-year comprehensive warranty

- Includes parts, labor, and removal, if specified

Ragless reversible impeller

- Dynamically balanced three-blade cast iron impeller is self-cleaning
- Forward and reverse pumping re-entrains foam and settled solids

Bearing and seals

- Double-thrust and spherical roller bearings prevent wear
- Mechanical and double-lip seals ensure complete protection and increase abrasion resistance

Grease lubrication and spent return system

- Lowest volume of grease usage (less than 20 L/year)
- Low pressure system protects seals
- Low viscosity 'triple aught' (000) grease is readily available for purchase
- Spent grease is returned to the top of the mixer (not wasted into tank), providing up-to-date information on the condition of the seals and bearings

Mixer housing

- Rigid design eliminates the need for stabilizers or centering devices

Impeller shaft

- Designed to avoid natural frequencies that cause vibration and minimize deflection
- Precise machine tolerances assure a quiet and smooth running system

Seal tube

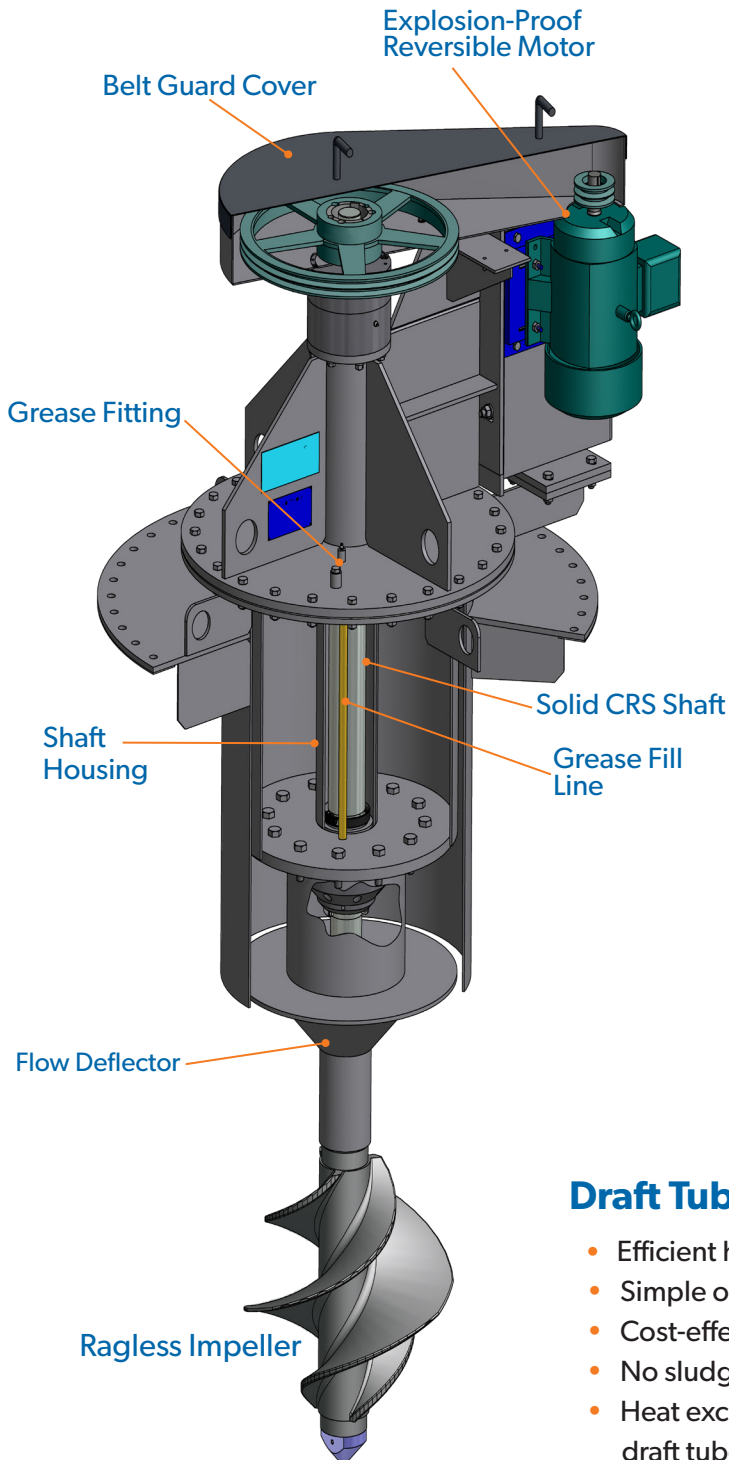
- Designed to create a liquid seal so the mixer can be removed without releasing pressure or draining the digester

Design flexibility

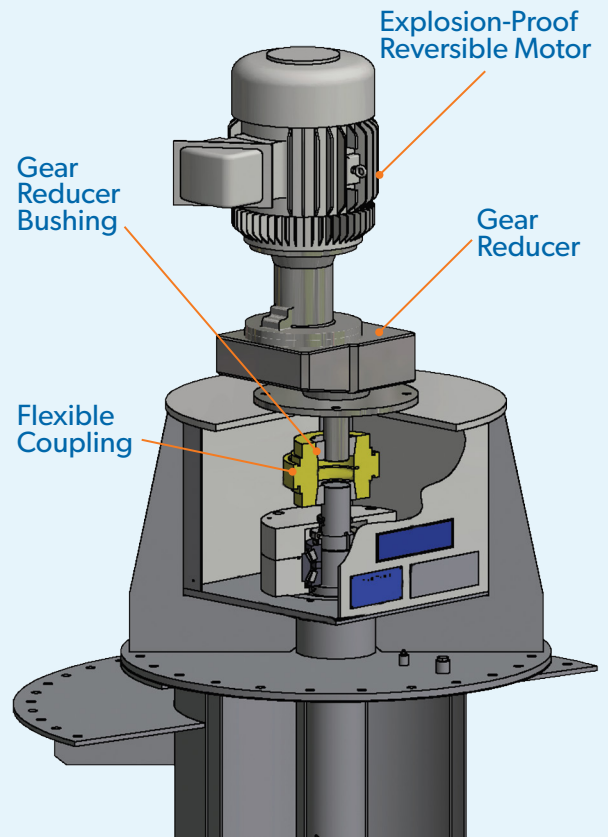
- Internally mounted on the digester cover
- Externally mounted with supports on the ground and two holes through the tank

Drive Configurations

Standard Belt Drive Configuration



Optional Direct Drive Configuration



Draft Tube Heat Exchangers

- Efficient heating and mixing
- Simple operation and maintenance
- Cost-effective
- No sludge pumping required
- Heat exchanger is wrapped around the draft tube
- Can be used with internal or external mixers





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