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