

Thern

Product Application



Wastewater



Raising and Lowering Mixers in Wastewater Treatment

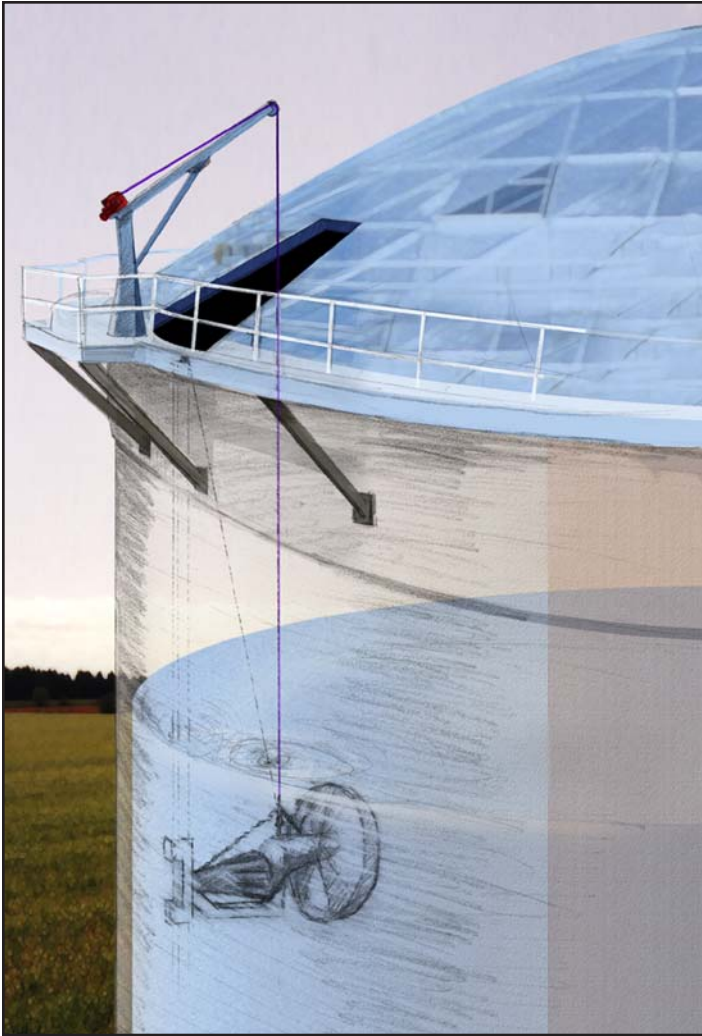


Above and Right: A Thern Series 571 stationary davit sits at the top of an aeration tank. Multiple units are stationed along the perimeter of the tank to position mixer units located in the liquid below.

Several Thern 57 Series Fre-Rol cranes are used at this wastewater treatment plant in Wisconsin to position mixers. The crane is operated with a 4WS Series electric winch to raise and lower the mixer into position along a guide rail attached to the wall of the mixing tank. A secondary tie off supports the mixer once it is in position. The crane boom adjusts with a ratchet style screw jack allowing the operator to keep the end of the boom centered over the mixer. This helps to avoid side pulls which cause the mixers to bind on the guide rails.

Multiple cranes are located on each mixing tank. Cranes and winches are finished with a three coat epoxy to provide superior resistance to corrosion.





Left: Secondary tie off support secures the mixer in place. the davit raises or lowers the mixer into position.



APPLICATION DETAILS

Lifting or pulling:	Lifting
Line pull required:	1,500 lb minimum at all boom positions
Hook Height and Reach:	75 in max. height, 84 in max. reach
Below Base Lift:	45 ft
Power source:	115/1/60
Base requirements:	Stationary mount, 360° rotation
Environment:	Outdoor, corrosive
Frequency of operation:	Periodic

