



*The Hammer Screen easily thickens and conditions sludge from a digester or clarifier.*

#### **Key Features:**

- Capable of conditioning and thickening sludge to over 25K Mg/L TSS.
- Low operating cost using only an 8AMP, 110V AC motor.
- Replaces traditional decanting process with no bacterial death or increase to phosphorus levels.
- Easily scalable for future treatment plant expansion & growth needs.
- Simple installation and implementation process.
- Compact footprint of 34" x 34"D x 48"-60"H that sits above the digester.

## **Who We Are**

### **About Us**

Titan Lab Tech is a startup company founded in 2018 and based out of Austin, TX. Our focus aims to increase efficiency in the wastewater treatment process via the Hammer Screen Sludge Thickening unit.

Our goal is to reshape and improve the current decanting and sludge thickening process, while reducing operational and associated costs.

We believe the best way to increase efficiency is by keeping the process simple, inexpensive and without waste.

*"Try and leave this world a little better than you found it" - Sir Robert Baden-Powell*

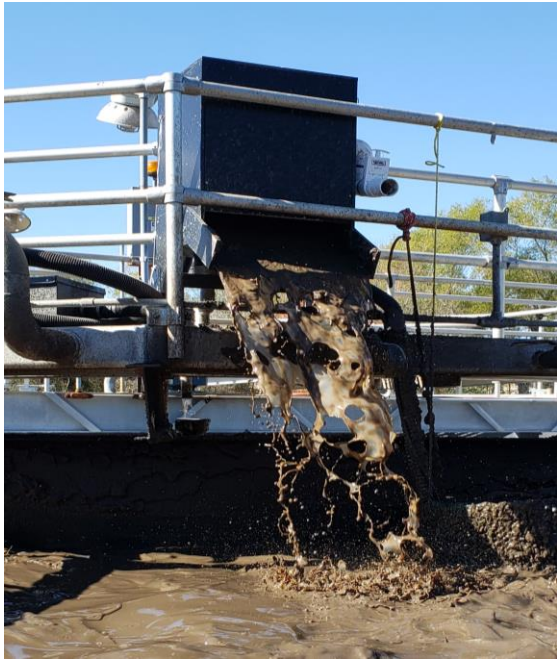


**TITAN LAB TECH LLC**  
Austin, TX  
512-956-8470



# **TITAN LAB TECH LLC**

*Hammer Screen – Sludge  
Thickener*



*Improving efficiency at a fraction of the cost via uninterrupted aeration decanting*

## Uninterrupted Aeration Decanting

### A new method to an old process

Traditional decanting requires the operators to stop the aeration process to allow the sludge to settle. This can lead to increased levels of ammonia/phosphorous and bacterial death when not done properly. The Hammer Screen changes this operation by continuously thickening the sludge without the need of stopping the aeration process at all.

### Energy Consumption Costs

The Hammer Screen has a remarkably low energy cost that only requires a 110V;15-20 Amp circuit power source with a startup load of 13-Amps and a running load of 11-Amps.

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*“Truck hauling costs, operations costs, reduced equipment wear and tear. We don’t just talk about saving you money, we show you where to find it”*

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### Easily scalable and for any sized treatment plant

Whether your treatment plant is serving a subdivision with less than 25,000 gallons incoming daily to a large plant receiving over 1,000,000+ gallons a day. The Hammer Screen can be scaled easily, without any major modifications to existing infrastructure. Whether you scale quickly due to inflow surges or over time with a planned build out, the Hammer Screen can quickly meet your usage need.



*The sample to the left is of raw sludge after 30min. of settling, the sample to the right is after 10min once processed with the Hammer Screen.*

### Installation and Implementation of the Hammer Screen

The Hammer Screen was designed to be simple to install and even easier to maintain. The unit can be assembled and installed in less than a couple of hours with 1-2 people. The overall weight of the unit is less than 125lbs and light enough for 2 people to lift and set-in place. Once the unit has been installed only minimal supervision by operations staff.