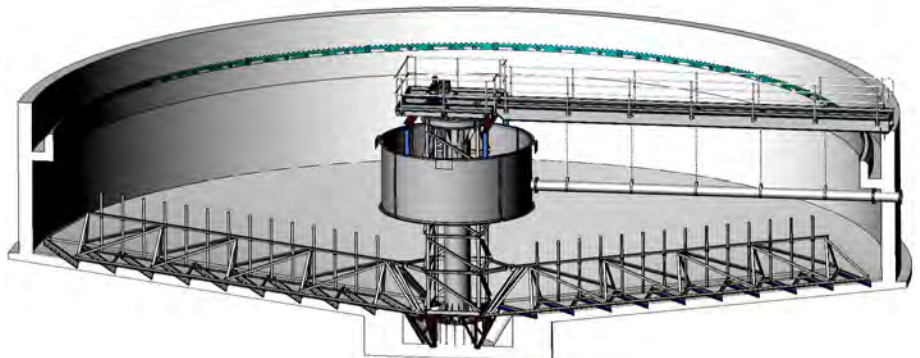
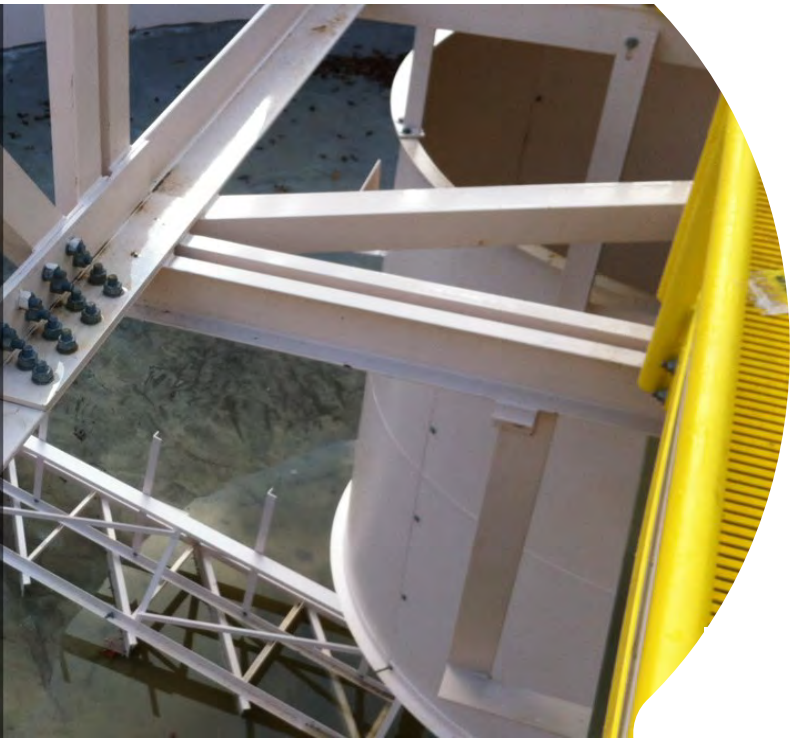


Thickeners



The ClearStream sludge thickener is designed to be among the most robust and reliable in the industry.

In applications ranging from municipal water to minerals, food, power, and /or pulp and paper processing; ClearStream will deliver a product to meet the most stringent performance requirements.



Thickener Design Options

Rakes with Pickets

As the pickets pass through the sludge, channels are created which allow interstitial water to escape. This release of water produces a sludge with a higher percent solids. This design works best with heavier sludges, which tend to trap the water within the sludge layer.



Blades on Posts

Blades on posts are another option to deal with heavy sludges. This design raises the rake structure out of the sludge bed. The result is that the rake structure is not “dragged” through the sludge bed. This in turn reduces the torque required to rake the solids to the center sump. This design is employed in applications that have a heavy sludge concentration.

Low profile Rakes

Low profile rakes are another option to reduce the torque required for thickening sludge. Rather than the traditional rake truss design, the rake arm is constructed either out of heavy-duty channel or a specially constructed box beam. In either design, the cross sectional area of the rake mechanism is greatly reduced, producing a decrease in the torque required to rotate the rakes through the sludge bed.

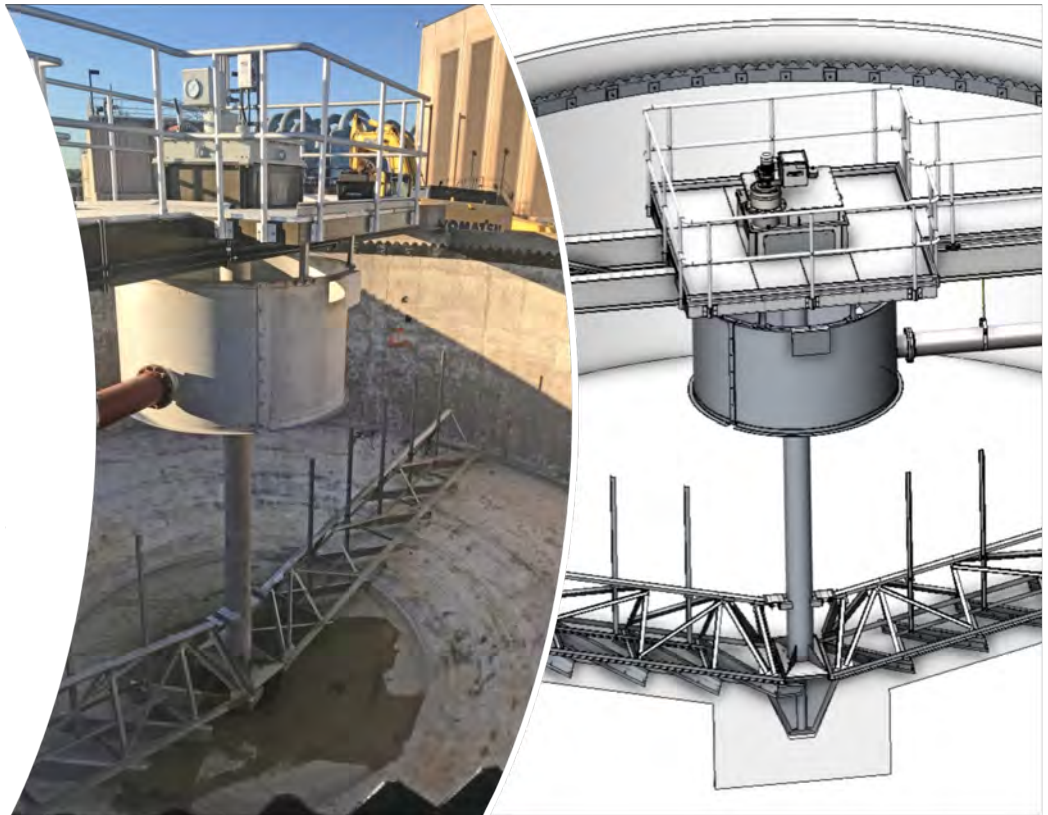




Thickeners

3D Models of Every Project

ClearStream produces a 3D model of every unit which we manufacture. These models are extremely valuable to ensure proper fit up. In addition, these models can be a useful tool for operators training and understanding of the unit design and operation. ClearStream provides these 3D models as well as the means for clients to view and manipulate these models at their own site or offices. This affords operations and maintenance personnel with a unique opportunity to “preview” the unit prior to any planned maintenance without having to drain the tank.



ClearStream can design Shaft or Cage Drives with lifts to accommodate any applications with high or heavy sludge loads.

These drives utilize robust primary and secondary reducers and precision main gear / bearings. They also include a torque measurement display with an easy-to-read torque dial.



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