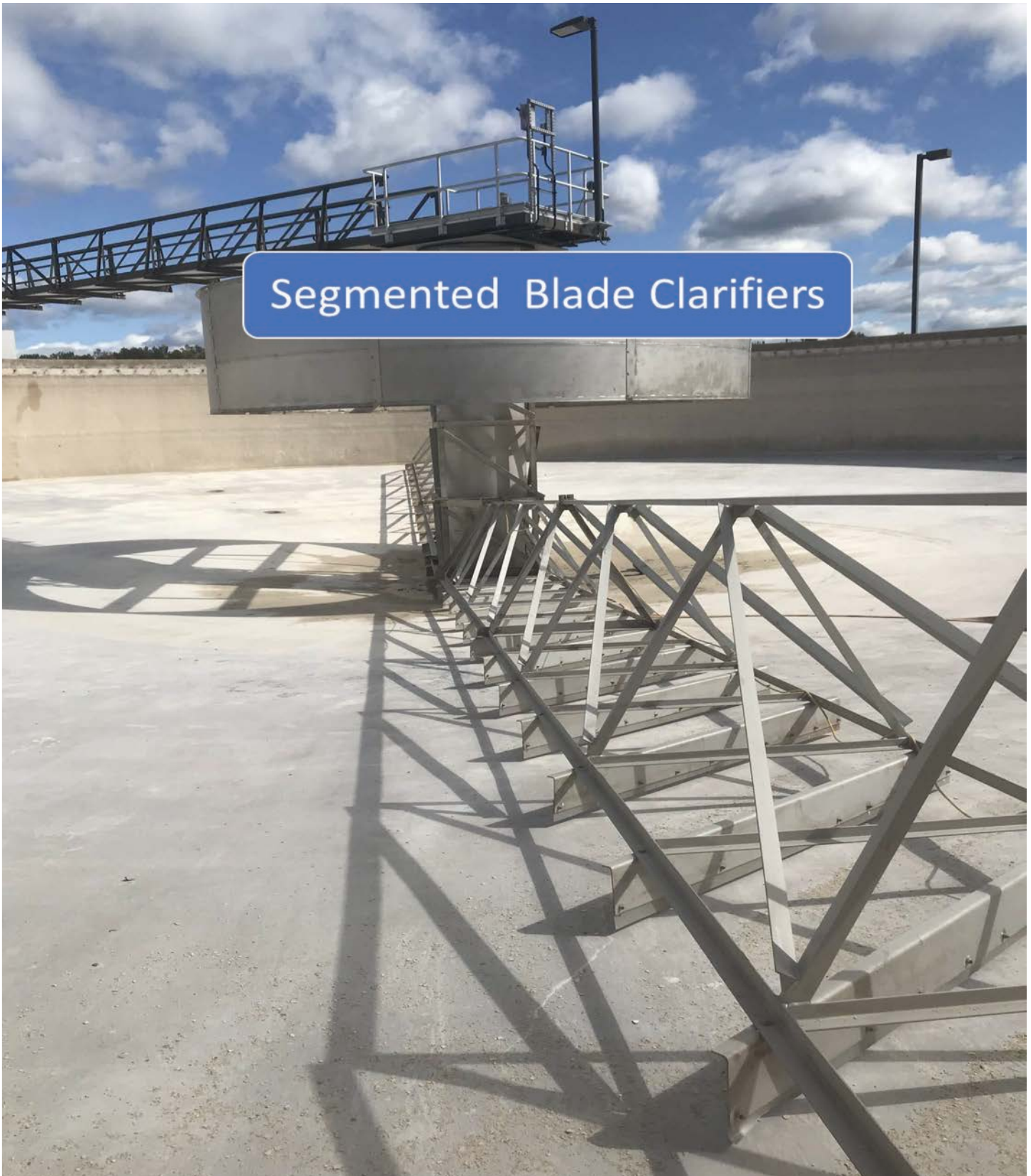


Quality Equipment: Competitive Price



Segmented Blade Clarifiers

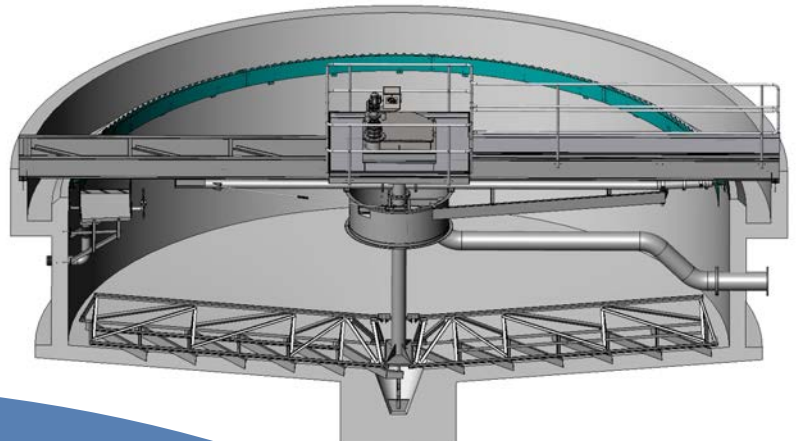


## Segmented Blade Clarifiers

For over 20 years, ClearStream has designed and manufactured liquid / solid separation equipment.

The segmented rake blade design has long been considered the workhorse of water and wastewater treatment.

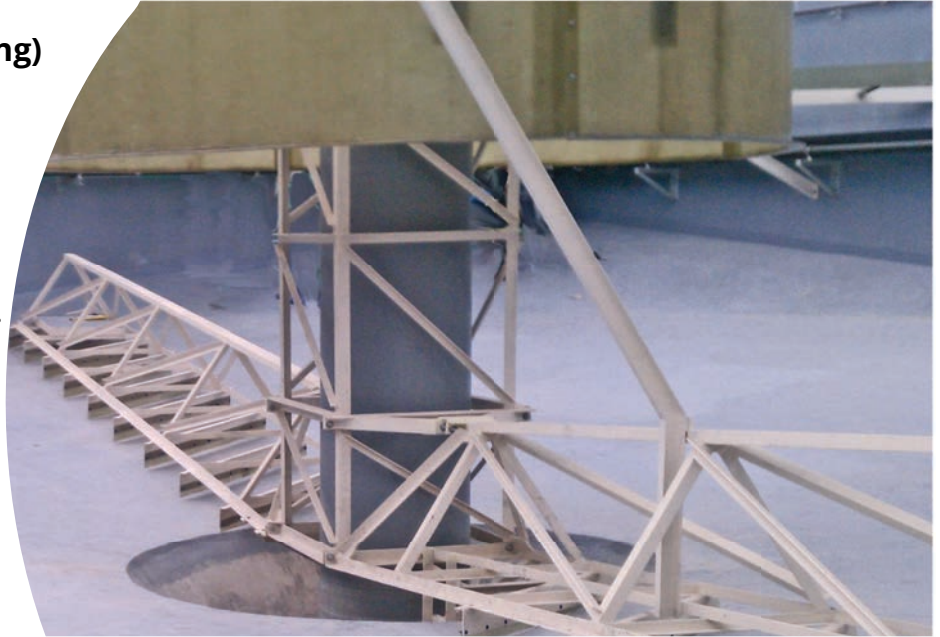
Raking blades turned at a near 45-degree angle are supported from two structural support arms. The settled sludge is plowed inward from one blade to another until it is deposited into a sludge pit.



## Segmented Blade Design

### ADVANTAGES: (with Proper Sizing)

1. Simple design.
2. Nothing to “plug up” under water.
3. Regardless of solids loading, settled sludge will be transported to the sludge pit.
4. Simple inspection and squeegee replacement.



### DISADVANTAGES:

1. Sludge transport from the outside may take many hours, especially on large (>100' dia) units, leading to the potential of septicity.
2. Under high flows and / or high solids loading conditions, the raking mechanism may not be able to transport solids as quickly as they are settling, causing a buildup of solids in the basin. The deeper sludge blanket can lead to scouring and short circuiting.

### VARIATIONS:

1. Change to the angle of the blade to the radius.
2. Increase the depth of all the blades.
3. Increase the depth of each blade as it gets nearer to the center and the sludge sump.
4. Add two more half-radius arms to aid in solids transport for clarifiers larger than 100' diameter.
5. Can be provided with a wide variety of skimming Mechanisms.



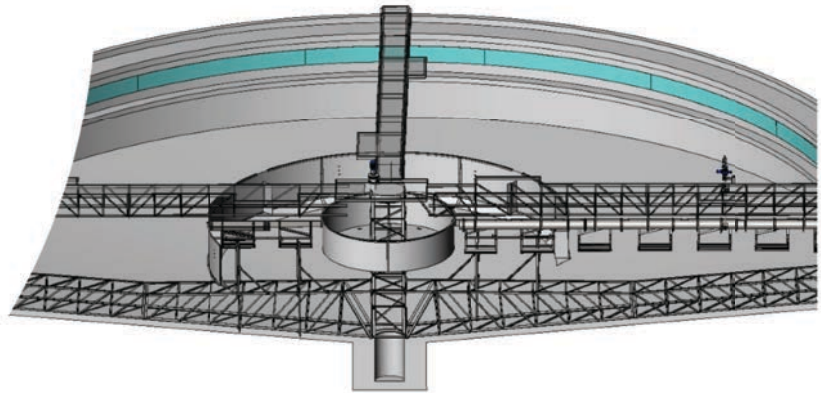
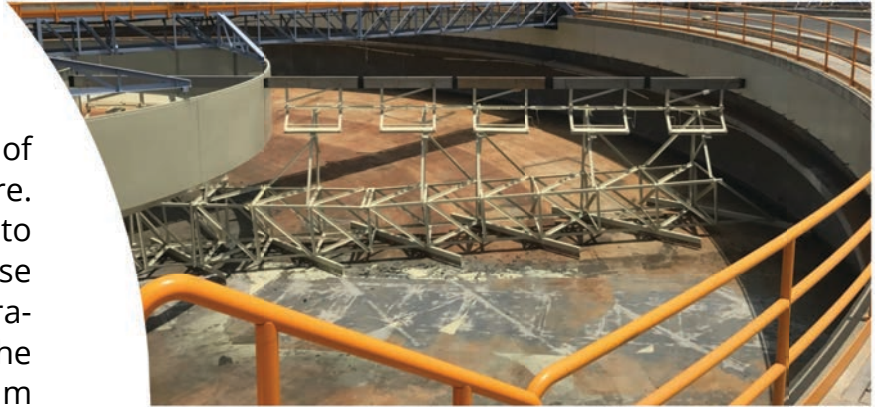


## Segmented Blade Clarifiers

*Ducking Skimmer*

### 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.



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