OVIVO Worldwide Experts in Water Treatment

Municipal
CALRIFICATION AND SEDIMENTATION

CLARIFIER DRIVE MECHANISM

True In-Place Serviceability.

All drive repairs can be completed within 6 hours with no interruption of process flow

PRODUCT PROFILE

Repairs can be made with a standard 1-ton engine hoist

Inner and outer race is interlocked with balls to provide load protection in all directions.

Same base drive components used for up to 135-ft diameter clarifiers by varying intermediate drive sizing.

Cost savings on base drive components and reduction of spare parts cost.

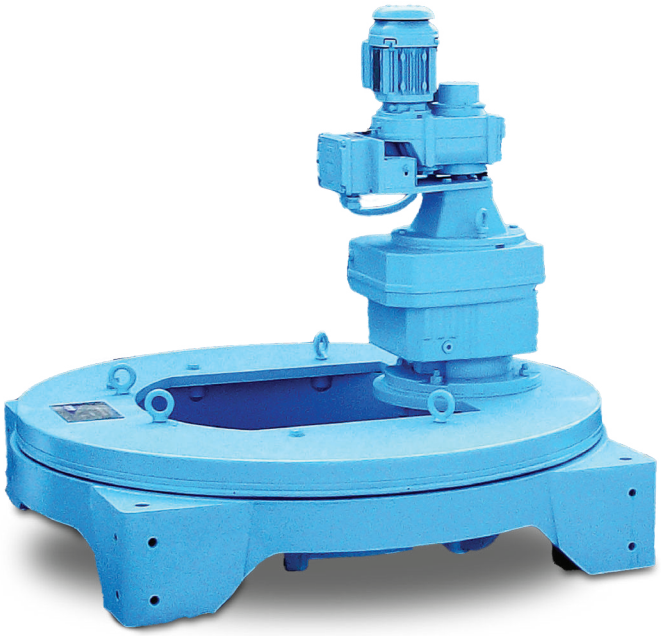
All moving components can be purchased commercially.

THE OVIVO ADVANTAGE

OVIVO, is proud to offer an innovative pier-supported drive mechanism with a key feature that makes our clarifier and thickener mechanisms superior to the competition.

One of the most common claims made by clarifier manufacturers is that the unit is supplied with removable strip liners that can't be replaced without removing the access bridge. What these manufacturers fail to mention is that the access bridge is not the problem- the drive cage is. The drive cage, to which the collector arms are attached, must be unbolted from the rotating portion of the drive mechanisms to gain access to the strip liners and bearing balls. The drive cage and flight arms must be supported during the process, which requires dewatering the clarifier to place supports under the mechanism to hold it in place while repairs are being made.

We have developed a revolutionary, new, heavy-duty, center pier supported internal spur gear drive that eliminates this problem.



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SUBMERGED EFFLUENT LAUNDER DESIGN

With the clarifier out of service, a waste treatment plant runs the risk of an increase in suspended solids being discharged to the effluent due to excessive hydraulic loads being applied to the remaining clarifiers. If a plant has only one clarifier, the problem is even more severe.

We have developed a revolutionary, new, heavy-duty, center pier supported internal spur gear drive that eliminates this problem. Our new gear is designed so that all critical parts of the drive mechanism, such as the bearing race-ways, balls and gear set, can be disassembled and removed for repair or replacement without disconnecting the drive cage and rake arm assembly from the rotating portion of the drive mechanism. Significantly, it is no longer necessary for the clarifier or thickener basin to be dewatered in order to shore up the drive cage and collector arms while repairs are performed. Flow can continue through the clarifier while the disassembly and reassembly procedure takes place. Instead of taking days, repairs take only four to six hours. A clarifier can handle the solids load over this time span without detrimental effects to the process even through the rake arms are not rotating.

Even more significant, all of the disassembly and repairs can be done on the bridge platform surrounding the drive mechanism with only a one-ton portable hoist, such as an engine hoist. This eliminates the expense of a large mobile crane and operator and the damage often caused to the landscaping.

No one else in the industry has the capability of offering a drive such as ours. It allows us to incorporate into our clarifiers either our 35" or 60" drives that are unique and provides you with a versatile drive with AGMA continuous torque ratings for clarifiers ranging from 40' dia. To 200' dia.

Ovivo has become a leading manufacturer of water and wastewater treatment plant equipment, notable for superior engineering and sales representatives, innovative customized equipment, driven by and especially responsive to the real needs of its expanding number of consulting engineers and facility owner consumers.

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