

Zickert™ Rotating Sludge Scraper

Remove sludge and surface scum from circular wastewater treatment settling tanks.

The Zickert™ Rotating Sludge Scraper offers major energy, operating and maintenance savings compared to rotating bridges.

It has a lower profile design, which reduces the space under odour control covers, so there is less air to be purified and energy costs are reduced. The circular tank scraper's electric drive is located on the perimeter tank wall with a static electrical connection point meaning no slip rings are needed. With few moving parts, the Zickert Rotating Sludge Scraper requires less frequent maintenance and is less subject to mechanical wear than conventional bridge scrapers.

It is suitable for retrofitting to both municipal and industrial circular scrapers, as well as for new installations.

Applications

For bottom sludge and, if required, also floating scum transportation in circular sedimentation plants for:

- Local Authority wastewater treatment plants
- Industrial processes

Product Information

- Materials: lightweight stainless steel (304 or 316 stainless steel depending on salinity of the water).
- No bridge required.
- Fixed electrical connection point.
- Motor gearbox.
- 80% less air requires treatment.
- Low power.
- Bottom and surface scraper.
- Low operational costs.
- Customisable.



Benefits

Remove sludge in primary and secondary tanks

Designed for circular tank applications and can be used on primary, secondary, humus and activated sludge processes. Surface scrapers can be attached to the bottom scraper so that any build-up of scum can be removed via a conventional scum beach and box arrangement. The rotational speed, and even the number of single or double scraper arms, can be varied to allow for the ideal configuration for any given application.

Control odour

Due to its very low profile and fixed electrical motor point, the Zickert™ Rotating Sludge Scraper is simple to cover and uses much less head space. This means that it is less expensive to cover, because it requires a much smaller odour control unit to handle any odours generated. On average 80% less air requires treatment with this system.

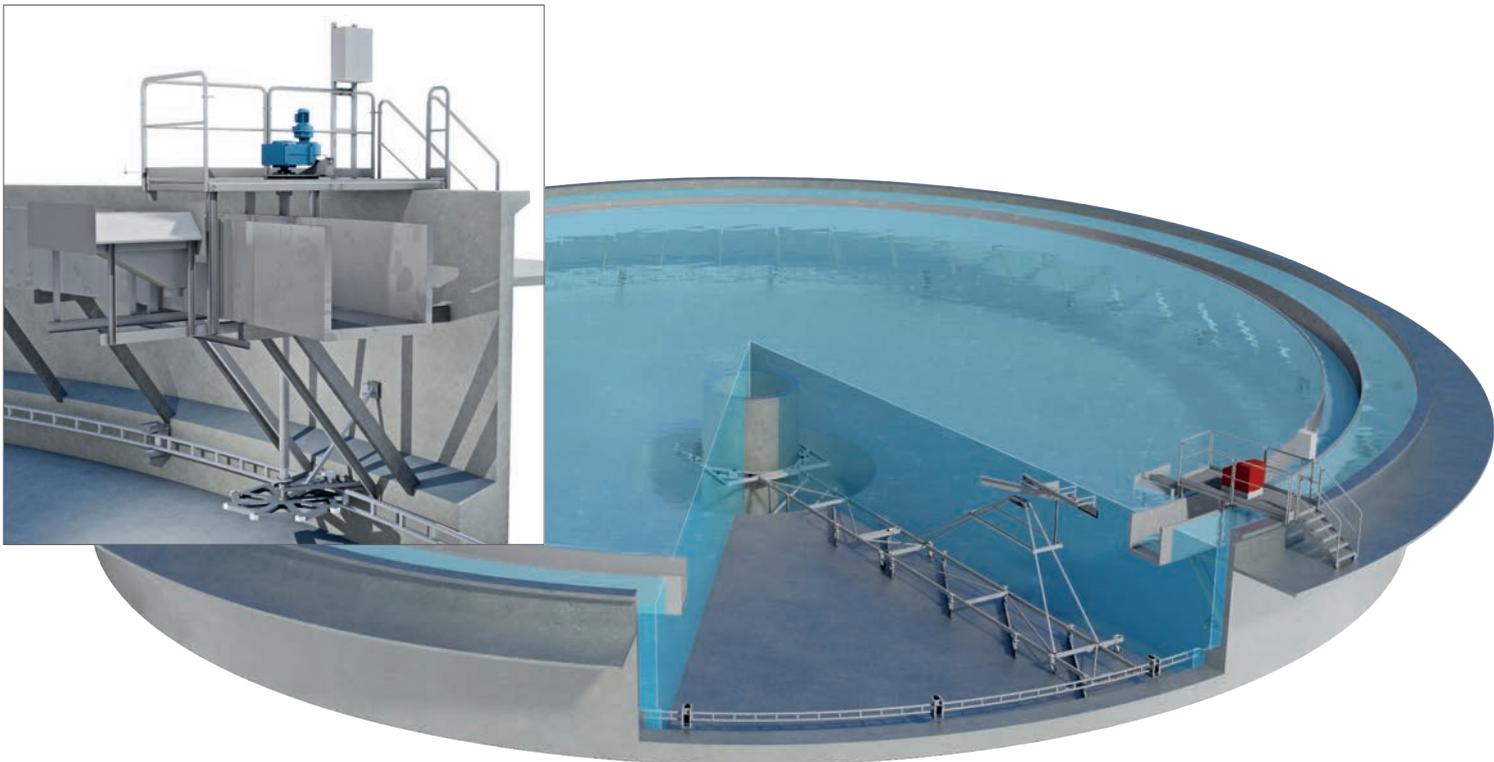
Safe and economical operation

The Zickert™ Rotating Sludge Scraper does not require a bridge, walkway, handrail, or slip rings, making the system particularly economical for large tanks which would normally require big structures.

The fixed location of the drive motor allows easy access to the key maintenance points, with no need to cross the tanks on a moving bridge.

How it works

1. A fixed drive unit mounted on the periphery of the tank powers a ladder drive ring running around the tank's circumference. This powers a bottom scraper blade held in place by a central bearing unit.
2. The bottom scraper blades are rotated by a circular rail located inside the tank wall, moving settled sludge to the collection point.
3. The electrical drive is located on the perimeter tank wall, for ease of maintenance and location of the power supply and negating the need for slip rings.
4. A surface scraper can be mounted on the bottom scraper unit to remove any scum build up. Where surface scum has to be skimmed off, the scraper frame is equipped with an additional top blade which directs scum to a scum beach and trough on the tank perimeter.
5. The scraper section is supported by its own wheels, allowing the drive ring and central support to hold the bottom sludge scraper in position without additional stresses.
6. With only the motor/gearbox protruding above the tank wall, low profile covers can be easily deployed for odour control.



Learn more

To learn more about how **Zickert™ Rotating Sludge Scraper** can help you to improve sludge handling, visit hydro-int.com, search zickert rotating online or contact us:

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