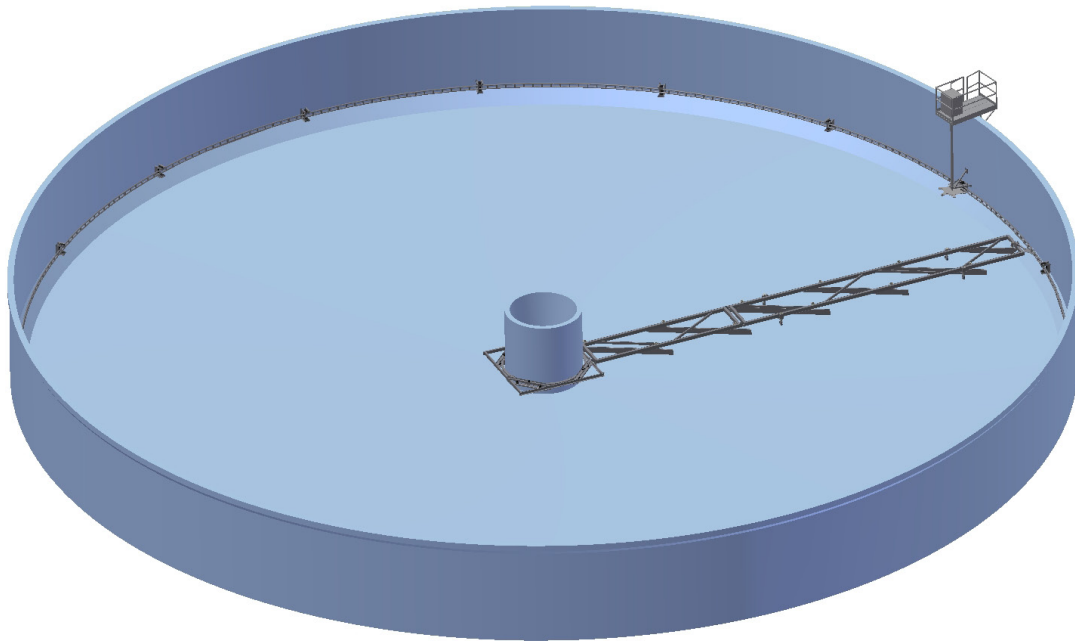


Z3700

Rotating Sludge Scraper



Main areas of use and features

- Unique driving system
- Fixed drive unit at the tank side – no moving bridge structure
- Easy installation without crane
- Easy to adapt for use in existing tanks
- Easy to cover tank above scraper
- Low maintenance

Z3700 ROTATING SLUDGE SCRAPER

New uniquely designed circular sludge scraper

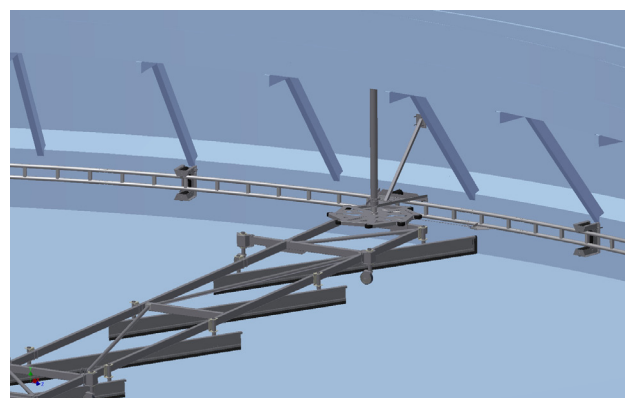
The Zickert Z3700 is developed by Nordic Water with a new innovative driving design. The sludge scraper is designed to transport bottom sludge and, optionally also floating scum in circular shaped sedimentation tanks in municipal and industrial water purification plants. The sludge scraper is easy to adapt for existing tanks without the need of extra concrete works. The Z3700 is easy to install, reliable and has few moving parts.

Unique fixed drive unit

The drive unit is a fixed installation at the tank side, which eliminates the need for a travelling bridge structure. The scraper is electrically powered by a gearmotor and the vertical drive shaft transfers the motion from the drive, at the top of tank, to the scraping unit at tank bottom. Attached to the drive shaft is a specially designed sprocket, powering a circular chain rail along the tank wall. The chain rail runs in glide blocks attached to the wall and rotates the bottom section to which the scraper blades are attached. The scraper unit rotates around the centre column with a centre bearing unit.

Slick construction

The development of Z3700 has resulted in a straightforward design and efficient system with low weight. The lack of a large and heavy bridge structure means less service and maintenance needs and also there is no need of the fixed chain rail on top of the tank edge, which will mean easier concrete works for new tanks. In addition to this, it will mean that there will be no parts sticking up above tank top which will facilitate for easy installation of a low profile tank covering system. Another benefit is the easy installation, which can be done without the need of a lifting crane.



TECHNICAL SPECIFICATIONS OF THE Z3700

Application	For bottom sludge and, if required, also floating scum transportation in circular sedimentation tanks for local authority wastewater treatment plants, drinking water plants and industrial processes.
Type of sludge	Suitable for most types of bottom sludge and floating scum.
Variation in water level	Standard ± 25 mm for surface scraping.
Materials	Stainless steel ASTM 304 L or acid-resistant steel ASTM 316 L.



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