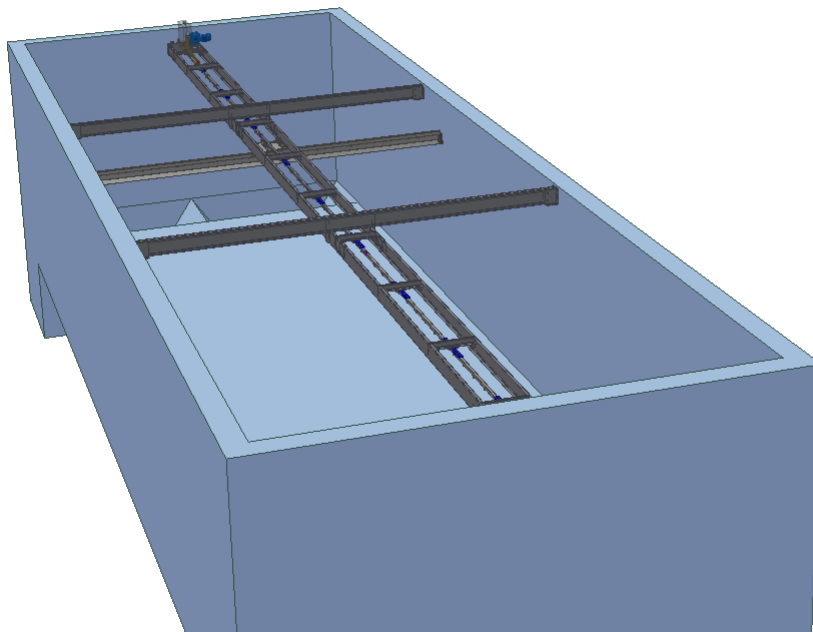


## Z3900

### Surface Sludge Scraper



#### Main areas of use and features

- Few moving parts
- Low maintenance
- Does not interfere with the sedimentation process
- Easy to adapt for use in existing tanks
- Adjustable speed
- Separate control and regulating equipment
- Easy to service
- Sludge outlet on either side

# Z3900 SURFACE SLUDGE SCRAPER

## Removes surface sludge with step-by-step movements

The Zickert Z3900 surface sludge scraper is designed for the efficient removal of surface sludge without excessive water. It is suitable for use in most applications involving surface sludge, including both municipal wastewater treatment plants and industrial processes. The sludge scraper is easy to adapt for flotation tanks or where lamella systems are in use. The Z3900 is easy to install, reliable and has few moving parts. The scraper blade draws off sludge from the entire surface of the tank and carries it to a scum pipe or scum beach. A feature of the Z3900 is its step-by-step movement. The drive bar moves back and forth.

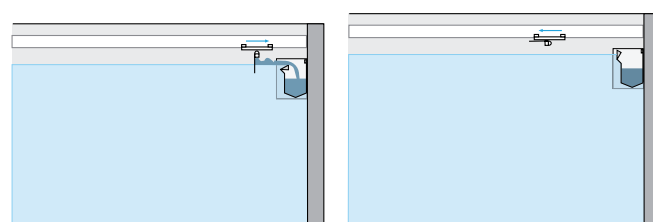


The scraper blade is fixed to a sledge which is propelled step-by-step by the drive bar. The sledge changes its direction of motion at each end of its travel. This allows several interacting sledges with scraper blades to be used in the same tank. For the return movement, the scraper blade swings up to avoid the sludge.

The Z3900 surface sludge scraper performs well in combination with the Z6300 rotating scum pipe or the Z6500 fixed scum pipe and the Z6900 scum beach. The pipes are automatically angled downwards as the scraper blade approaches them.

The surface sludge scraper only allows a minimal amount of transport water to accompany the sludge, less than with many other surface scraper systems.

The surface sludge scraper is available in electrically or hydraulically powered versions.



*Only the scraper blade comes into contact with the water surface. When it reaches the end of its travel and has deposited the sludge, the blade is angled up again for the return movement. Several scraper blades can be used in the same tank.*

### TECHNICAL SPECIFICATIONS OF THE Z3900

|                          |   |
|--------------------------|---|
| Application              | In rectangular sedimentation tanks for municipal wastewater treatment plants, drinking water plants and industrial processes. Can also be adapted for use with lamella systems or in flotation plants |
| Type of sludge           | Suitable for most types of sludge.  |
| Maximum dimensions       | L = 2–80 m. W = 0.5–12 m. Max scraped area = 700 m <sup>2</sup>   |
| Clearance                | The Z3900 scraper requires a clearance of about 400 mm above the surface of the water.  |
| Variation in water level | Standard $\pm 25$ mm  |
| Materials                | Stainless steel ASTM 304 L or acid-resistant steel ASTM 316 L   |