

Z3900 surface scum scraper

Removes surface scum with step-by-step movements

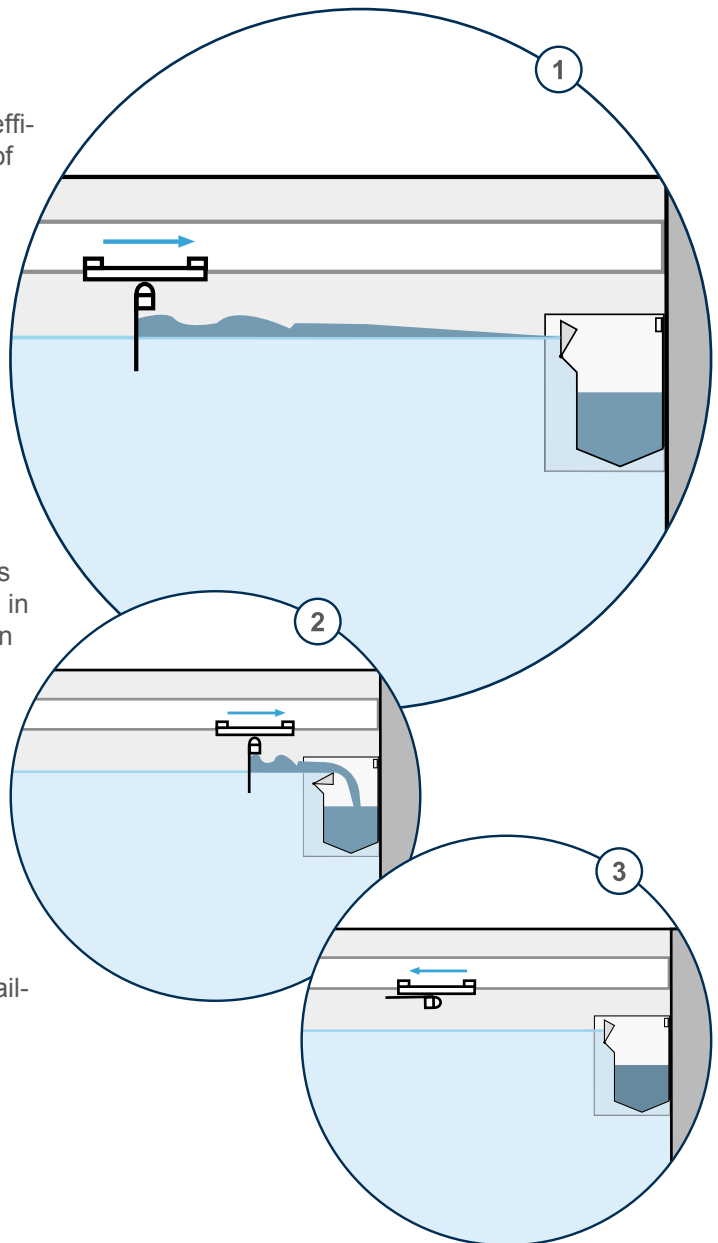
The Z3900 surface scum scraper is designed for the efficient removal of surface scum without excessive use of transport water. It is suitable for use in most applications involving surface scum, including both local authority wastewater treatment plants and industrial processes. The scum scraper is easy 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 scum 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 sledges with scraper blades to be used in the same tank, interacting with each other. For the return movement, the scraper blade swings up to avoid the scum.

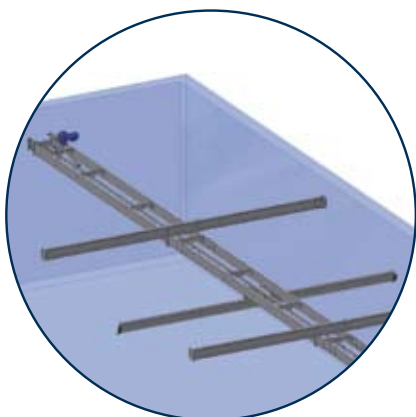
The Z3900 surface scum scraper performs well in combination with the Z6300 rotating scum pipe or the Z6500 fixed scum and the Z6900 scum beach. The pipes are automatically angled downwards as the scraper blade approaches them.

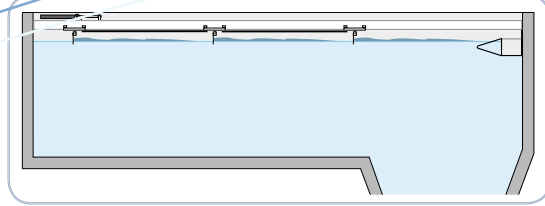
The surface scum scraper only allows a minimal amount of transport water to accompany the scum, less than with many other surface scraper systems.

Both the surface scum scraper and the pipes are available in electrically or hydraulically powered versions.



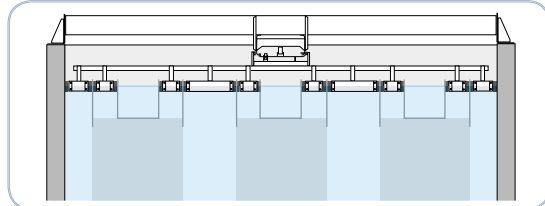
Only the scraper blade comes into contact with the surface of the water. When it reaches the end of its travel and has deposited the scum, the blade is angled up again for the return movement. Several scraper blades can be used in the same tank.





Z3900 for flotation

Version with scum beach, used in flotation installations, for example. Shown here fitted with several scraper blades on the same drive.



Z3900 for lamella systems

Version for use with a lamella system, adapted for scraping between the outlet boxes. Nozzles to flush the lamella system can also be fitted.

Features of the Z3900 surface scum scraper

- 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
- Scum outlet on either side

Technical specifications of the Z3900

Application	In rectangular sedimentation tanks for local authority waste-water treatment plants, drinking water plants and industrial processes. Can also be adapted for use with lamella systems or in flotation plants.
Type of scum	Suitable for most types of scum.
Maximum dimensions	L = 2–80 m. W = 0.5–12 m. Max scraped area = 700 m ²
Scraped area	The scraped area extends to the walls of the tank and to the outlet. In principle, the scraped area is the same as the surface area of the tank.
Clearance	The Z3900 scraper requires a clearance of about 400 mm above the surface of the water.
Variation in the water level	Standard ±25 mm
Materials	Stainless steel ASTM 304 L or acid-resistant steel ASTM 316 L

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