

# Zickert Z3900 *Surface Scum Scraper*

## Surface Scum Removal with **Minimum Transportation of Water.**

### Applications

- New wastewater treatment plants.
- Retrofit to existing treatment works.
- Water purification plants.
- Industrial process wastewater treatment plants.
- Suitable for use in combination with Lamella systems or in flotation tanks.

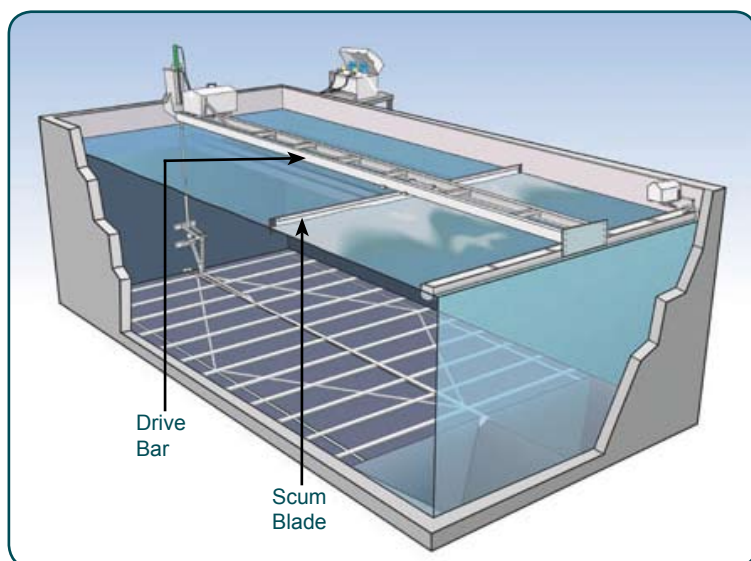
### Advantages

- Independent operation from Z2000 bottom sludge scraper.
- Continuous or intermittent scum transportation to suit process.
- Adaptable to most tanks.
- Simple to install.
- High operational reliability.
- Adjustable scraper speeds.
- Scum mechanism 100% stainless steel.
- Can be used in conjunction with the Z2000 bottom sludge scraper.

The Z3900 is an efficient surface scum scraper with minimum transportation of water.



### How it Works



The Z3900 is characterised by its step-by-step movement. The drive bar moves forward and returns, the blade being fastened to a slide that is moved forward stage by stage by the drive bar.

A system of levers on the slide changes its direction of movement when it reaches its end position. This means that it is possible to install several blades in series in one tank, the scum being passed from one blade to the next on its way to the scum pipe.

Each blade is angled upwards 90° during its return.

To obtain maximum scum dry solids content, the Z3900 should be combined with a Z6300 or Z6500 scum pipe.

### Technical Specification

- Dimensions:
  - Maximum length = 80 m.
  - Maximum width = 12 m.
  - Maximum surface area = 700 m<sup>2</sup>.
- Multiple units can be installed in parallel in larger tanks.
- Clearance - The Z3900 requires approximately 400 mm clearance above the surface of the water.
- Material: Stainless steel ASTM 304 or acid-resistant ASTM 316.

## Zickert Z6300 *Rotating Scum Pipe*

The Z3900 scum pipe is automatically angled or rotated to the exact extent required to receive the scum decanted by the surface scraper. Its movement can be controlled by a water level gauge in the tank itself.

The Z6300 is best suited for use with scum with a low total solids content. With stable water levels it is possible to minimise the amount of water removed with the scum.

The scum pipe can be powered electrically or hydraulically or may be operated by manual lever. Installation is straightforward, and special embedment fittings are available for securing it to the wall of the tank.

### Technical Specification

Sizing: Available in two sizes - 200 mm or 300 mm diameter.

Material: 100% stainless steel.

## Zickert Z6500 *Fixed Scum Pipe*

The Z6500 is a fixed scum pipe with an adjustable forward edge or 'lip'. When the lip is folded down inside the pipe, scum passes into the pipe over the lip.

The angled bottom of the Z6500 results in a high capacity, and is particularly suitable for applications where scum has a higher total solids content.

The Z6500 can be powered electrically or hydraulically or may be operated by manual lever. It can be fitted close in to the end of the tank. Installation is straightforward, a single working day is normally sufficient.

### Technical Specification

Sizing: Available in two sizes - 200 mm or 300 mm width.

Material: 100% stainless steel.

Options: A sump can be included if required.

## Zickert Z6900 *Scum Beach*

The Z6900 scum beach can be fitted in either a concrete or a sheet steel scum pipe on a permanent basis and it is best suited for use with sludge with a high total solids content. It is usually used in flotation applications.

### Technical Specification

Sizing: Dimensions are in accordance with individual specifications.

Material: 100% stainless steel.

Options: A sump can be included if required.

*HRD Technologies Ltd is a subsidiary of Hydro International plc.*

*Hydro International are the sole UK and Ireland distributor for Nordic Water Products AB*

This information is for guidance only and not intended to form part of a contract. Hydro International pursues a policy of continual development and reserves the right to amend specifications without prior notice. Equipment is patented in countries throughout the world.



Certificate No. 961366



HRD Technologies Ltd • Tootenhill House • Rathcoole • Co. Dublin • Ireland  
Tel: +353 (0) 1 4013964 • Fax: +353 (0) 1 4013978 • [www.hrdtec.com](http://www.hrdtec.com)