



LACKEBY WIRE DRIVEN SCRAPER

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Sludge handling  
with many process benefits  
and low life-cycle costs



## LACKEBY WIRE DRIVEN SCRAPER

### When high reliability and low investments costs are a requirement

The Lackeby Wire driven scraper, with its simple design, is a natural choice when you need a robust design with high reliability and low investment cost. The sludge scraper is designed for installations in rectangular sedimentation basins and can easily be customized independent of the basin size and quantity of sludge. Continuous operation is not necessary, which reduces the wear and provides a long service life.

#### Applications

- Municipal sewage treatment plants
- Water works
- Process water, for example:
  - Paper and pulp
  - Fruit and vegetables
  - Drinks (beer, wine, juice)



**Sewage treatment**



**Water works**



**Paper and pulp**



**Fruit and vegetables**

### **Low costs**

- Low life-cycle cost due to low investment and operating costs.
- Low energy consumption and high reliability due to few moving parts.
- Low maintenance costs.
- Service life normally more than 20 years.

### **Design benefits**

- Simple and reliable design.
- Neutral balanced scrapper blade for minimal wear.
- Specially developed Dyneema fibre rope for the best service life.
- Torque overload guard protects the equipment.

### **Flexible system**

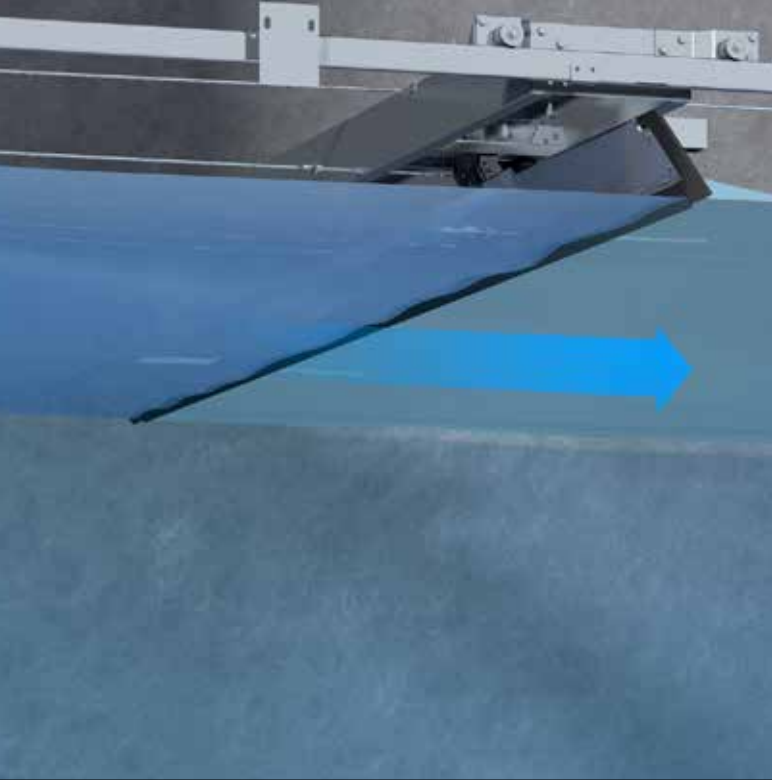
- Suitable for basins up to 70 x 12 m.
- Easy to install and commission.
- Integrated skimmer can be supplied optionally.
- Can be used in double-bottomed sedimentation basins.



### **Secondary sedimentation Ryaverket, Gothenburg.**

During the years 1985-2004, 47 Wire driven scrapers were installed in double-bottomed basins with dimensions 58 x 7.8 x 3.4 m.

All the Wire driven scrapers are still in operation.



## NEW DEVELOPMENTS - SKIMMER

- Driven by a separate drive unit.
- Low energy consumption.
- No rotating parts under water.
- Can be adapted for to various applications.
- Can be supplemented with tilt channel or scraper table for evacuating the sludge.

### Applications:

- Scum and floating sludge.
- Flotation sludge.

### Functional description

Intermittent scraping with the drive executed by a reversible two-speed motor.

Scraping operation during 2/3 of the time. Return movement during 1/3 of the time at double speed.

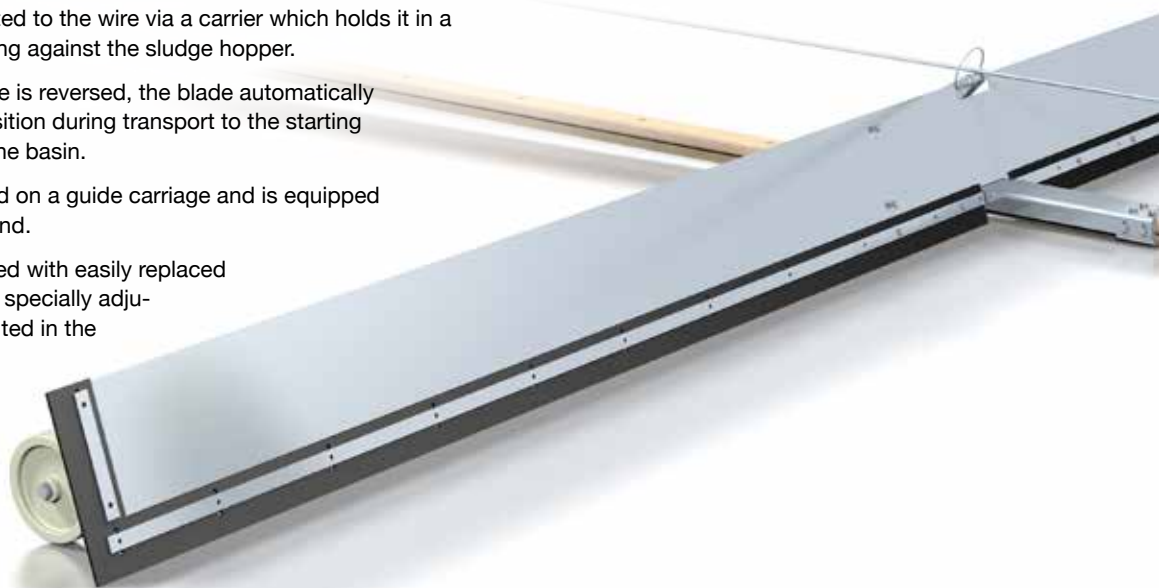
The scraper blade is connected to the wire via a carrier which holds it in a vertical position when scraping against the sludge hopper.

When the direction of the wire is reversed, the blade automatically folds up to the horizontal position during transport to the starting position at the other end of the basin.

The scraper blade is mounted on a guide carriage and is equipped with wheel support at each end.

The guide carriage is equipped with easily replaced glide shoes and runs along a specially adjusted wooden guide rail mounted in the middle of the basin.

Several scraper blades can be easily linked together depending on application and the size of the basin.



*Lackeby Products AB has more than 50 years of experience in designing and manufacturing high performance products for resource-efficient heat recovery and wastewater recycling. In our production facilities in Sweden we have made thousands of products for the toughest environments world wide.*

*We are well known for our ability to customize products to each customer's unique requirements. All of our products are characterized by reliability, long life cycles and easy maintenance making Lackeby Products a trusted partner and supplier of products for plant upgrades or new plant constructions. We guarantee high quality, excellent performance and complete satisfaction.*