



More than 50 years of development,
experience and
innovations



MECHANICAL SCREENING / HEADWORKS

Lackeby Wire bar screen

- Coarse screen suitable for deep and wide channels
- Wire-driven with no submerged bearings
- Suitable for installations with limited ceiling height
- Low operation and maintenance costs due to few moving parts
- Robust design with normal lifetime of more than 20 years

Lackeby Climber bar screen

- No submerged bearings
- Hardened involute gear racks and cogwheel drive mechanism ensure minimal maintenance costs
- Bar aperture ≥ 6 mm
- Suitable for deep channels and for water depth up to 3 meters
- Robust design with normal lifetime of more than 20 years

Lackeby Step screen

- High capacity with low head loss due to large active screen area
- Self-cleaning design with no need for brushes or spray water
- No submerged bearings
- Low operation and maintenance costs
- Pivots out of the channel for easy maintenance

Lackeby Spiral screw screen

- Efficient and economical separation of solids from wastewater
- Shaftless spiral reduces the clogging risk of fibrous material
- No submerged bottom bearing
- Low energy consumption
- Pivots out of the channel for easy maintenance

Lackeby Products AB has more than 50 years of experience in designing and manufacturing high-performance products for resource-efficient energy recovery and wastewater recycling. In our production facilities in Sweden we have manufactured thousands of products for the toughest of environments worldwide and are known for our ability to customize products to meet each customer's unique requirements.

All of our products are characterized by reliability, long life cycles and easy maintenance making Lackeby a trusted partner and supplier of products for plant upgrades or new plant constructions. We guarantee high quality, excellent performance and complete satisfaction.



Lackeby Drum screw screen

- Efficient and economical separation of solids from wastewater
- Shaftless spiral reduces the clogging risk of fibrous material
- No need for additional upstream screening
- Low energy consumption
- Pivots out of the channel for easy maintenance

Lackeby Roto-Sieve® drum screen

- Lifetime of the screen is normally more than 20 years
- Self-cleaning design means low maintenance
- High degree of separation due to perforated drum and pressureless operation
- Low energy consumption
- No need for additional upstream screening

Lackeby Pre-treatment unit

- Customized, compact design with a high degree of separation
- Low operating costs
- No need for additional upstream screening before the unit
- Easy and quick installation and start up
- Grease separation and aerated grit chambers

Lackeby Products AB has exported thousands of units to more than 100 countries. Our employee's know-how, skills and commitment to high standards are the foundation of our development and growth.



CONVEYORS AND COMPACTORS

Lackeby Screw conveyor

- Spiral with or without shaft depending on the application
- Customized, project-adapted design
- Low maintenance and operation costs
- Horizontal, inclined or vertical types available
- Trough widths up to 800 mm
- Single, double or triple spirals depending on the application

Lackeby Screw conveyor press

- Customized, project-adapted design
- Enhanced dewatering efficiency and transport with minimal wear
- Brush-equipped spiral for efficient operation
- Multiple installation configurations possible
- Shafted or shaftless spiral depending on the application

Lackeby Screw press

- Robust trough construction for high torque resistance and maximum dewatering capability
- Simple low-cost design with low maintenance requirement
- Dewatering performance up to 50%
- Flexible design with easily exchangeable dewatering and press zone
- Multiple outlet configurations available

Lackeby Piston press

- Transports and lifts dewatered material
- Minimum floor space requirement
- Low degree of maintenance
- Gives a simple, cost-effective installation

GRIT AND SAND TREATMENT

Lackeby Grit classifier

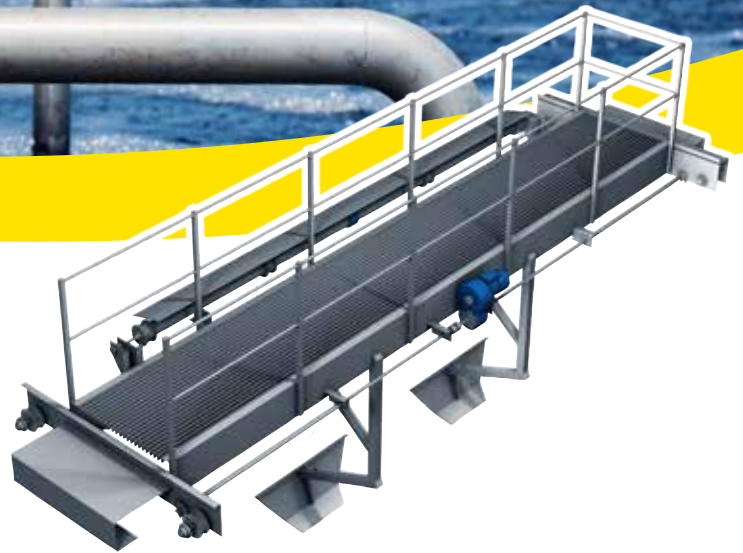
- Up to 95% grit separation for particles 0.16 - 0.20 mm
- Unique design option for extracting floating particles
- Minimum maintenance and low energy consumption
- Larger units for highly abrasive materials available with Cruesabro wear plate
- More than 20 years' experience of classifier manufacturing

Lackeby Grit washer

- Maximum sand separation with a minimal footprint
- Low maintenance costs due to few moving parts
- Available in three different sizes with a capacity of up to 25 l/s
- Organic content of washed sand >3% without top mounted agitator
- Up to 95% grit separation for particles 0.16 - 0.20 mm

Lackeby Travelling grit scraper

- Cogwheel drive to prevent slipping during the winter
- Integrated surface scraper for FOG removal
- Available with submerged pump for continuous pumping of grit
- Customized, robust design which requires a minimum of maintenance



CLARIFICATION

Lackeby Gravity thickener scraper

- Customized design
- Robust construction
- Low energy requirement
- Long life and low maintenance costs
- Advanced odor control with optional top water layer

Lackeby Wire driven scraper

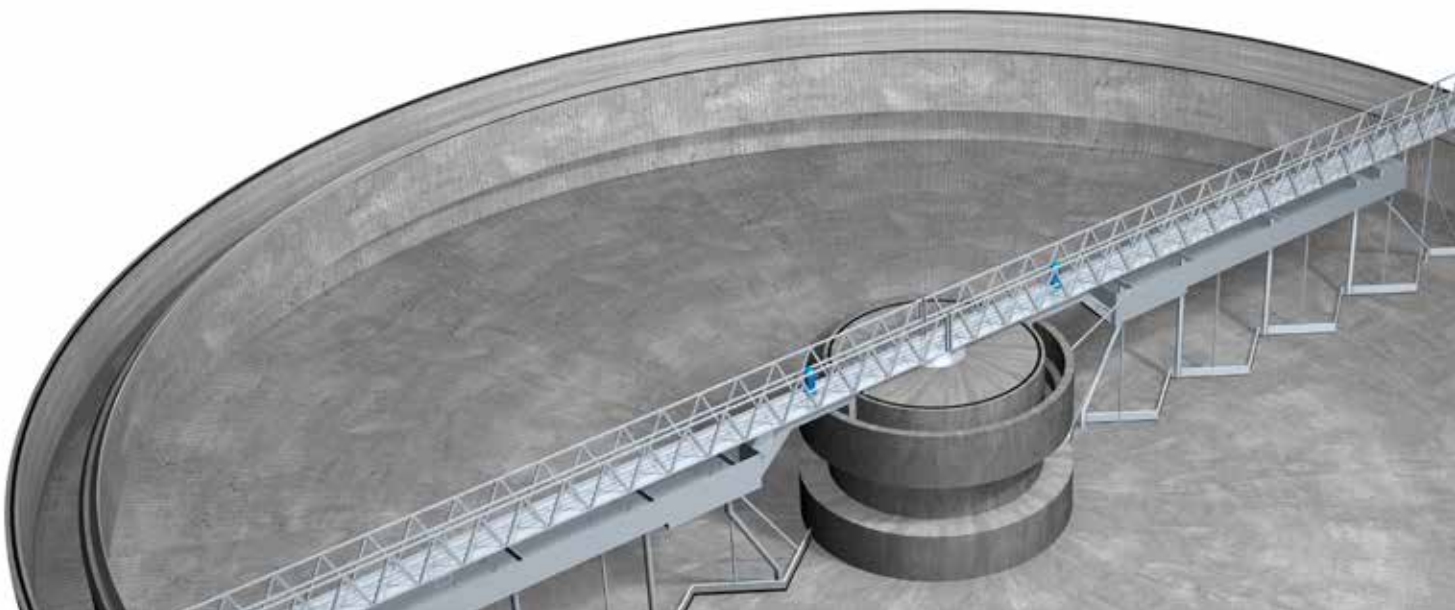
- Simple, reliable design with low energy consumption
- Low investment costs compared to other similar solutions
- Quick installation in comparison with other similar solutions
- Long life and low maintenance costs
- Available with floating sludge removal

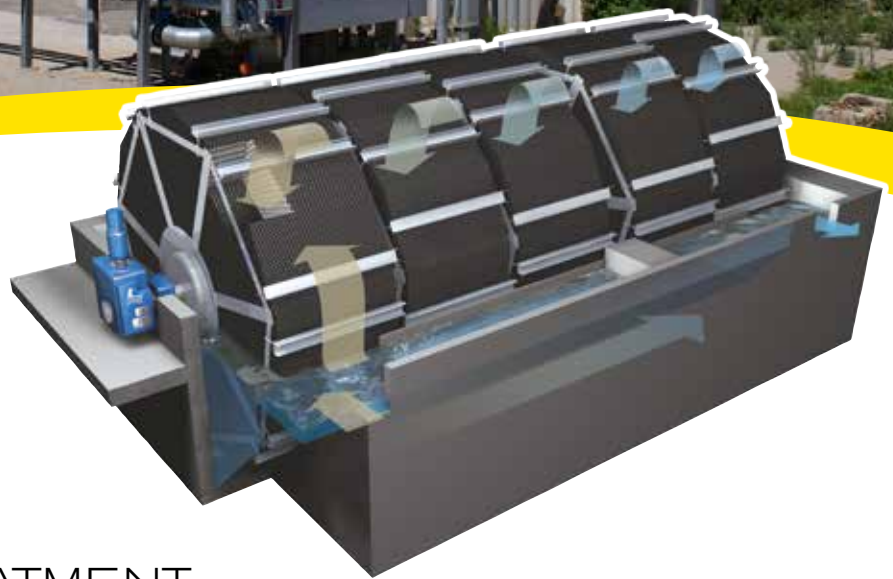
Lackeby Centre driven scraper

- Customized design
- Robust construction with low energy consumption
- Available with a complete floating sludge removal system
- Long life and low maintenance costs
- Torque switch that cuts the power immediately if the scraper is overloaded

Lackeby Peripheral driven scraper

- Customized design
- Low energy consumption
- Long life and low maintenance costs
- Can be installed in basins up to 65 meters in diameter
- Advantageous sludge removal system





BIOLOGICAL TREATMENT

Lackeby Rotating biological contactor

- Compact, flexible design with minimal space requirement
- Low energy consumption and maintenance costs
- Few components and a long lifetime ensure low LCC-costs
- For use in new installations or expansion of existing plants

Lackeby Floating decanter

- Floating design with removal below the surface ensures
 - maximum distance from bottom sludge
 - safe distance from floating sludge
- No conventional valves, pumps or motors necessary
- Wide decanting area for the best possible process output
- Only yearly inspection required with no need for maintenance
- Maintenance-free design means zero costs for spare parts



SLUDGE TREATMENT

Lackeby Roto-Sieve® drum screen

- Sludge screening to separate unwanted debris
- Reduces or fully avoids sedimentation and clogging problems due to debris
- Large savings due to less maintenance and service stops
- Self-cleaning design means low maintenance
- Low energy consumption

Lackeby Roto-Sieve® septic unit

- High separation capacity and automatic cleaning ensures high performance during full septic release
- High capacity and reliability ensures fast and efficient unloading
- Low energy consumption
- Can be designed to ensure that trucks can unload with highest possible flow

Lackeby Products AB has become an expert in utilizing process heat to its maximum. Our heat exchangers are designed to recover most of the excess heat present from different medias thereby greatly increasing operating efficiency and reducing production costs. More than 700 Lackeby Heat exchangers have been supplied to both industrial and municipal plants in over 25 countries worldwide.



ENERGY MANAGEMENT

Lackeby Heat exchanger sludge/water

- Sludge is mixed in the turning chambers which results in a homogeneous sludge temperature
- The heat exchanger is designed for optimal velocity, ensuring turbulence is kept inside the piping in order to obtain the highest possible heat transfer
- An insulated housing ensures that energy losses are kept as low as possible
- Highly efficient and yet compact with a minimal footprint
- Few bolts on the hinged turning chambers facilitate quick and easy maintenance

Lackeby Heat exchanger sludge/sludge

- Significant cost savings due to a high energy recovery of already previously added energy
- Risk elimination of sludge contamination in pasteurization systems
- Unique space-saving design
- Extensive experience with many types of substrates such as wastewater sludge, manure and food waste
- Our high degree of process knowledge enables us to give support in the process design

Lackeby Heat exchanger air/water

- Substantial savings on energy costs due to high energy recovery from the heated air after blowers
- Cost effectiveness due to the extended lifetime of rubber membranes (if used) due to the reduced air temperature. Membrane lifetime of 12-15 years is not uncommon.
- Unique design assures easy installation in both existing and new plants
- Because the head loss is so low, recalculation of the blowers is not necessary



EXCELLENCE-



Moving with a vision

It is indeed sad to see how we treat our planet and our legacy. Fresh, potable water for example is far from something that we always can assume exists even in the most developed parts of the world. At Lackeby our vision is to develop products that tax the environment as little as possible in order to reuse and conserving our natural resources. We welcome you to join us in this endeavor.

High ambitions

Although we would like to, we can't change the whole world to the better on our own. However, we can do our part and this starts with motivating our most valuable asset, our employees. Skilled, healthy and committed employees ensure that we can maintain our high ambition to provide our customers with the best possible products and support. Our promise to you the customer is to never compromise on quality or function. Our process knowledge and high quality products guarantee that you will always receive cost-effective solutions which will make a minimal impact on the environment.

A product portfolio in movement

We are proud to present a number of our products in this brochure. The Swedish legacy of designing and producing simple, quality innovations is the guiding principle for all our product development. We sincerely welcome your opinions and ideas concerning our products so that we together can strive to achieve a more sustainable planet in the future.

Magnus Axelsson

CEO, Lackeby Products AB

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