

Grit separation

Equipment for efficient
separation of grit



ConWash Sand Washer

ConClar Travelling Scraper

ConSep Classifier

ConVortex Sand trap

Grit separation

Comprehensive line for optimal separation of sand

Läckeby Products has a wide range of equipment for effective grit handling in wastewater treatment plants and in industry. The line includes a well-documented range of sand dewatering units, sand washers and equipment for sand traps. When you choose products from Läckeby Products you can rest assured that the plant will meet applicable requirements for a long time.

The Läckeby Products line for grit handling includes:

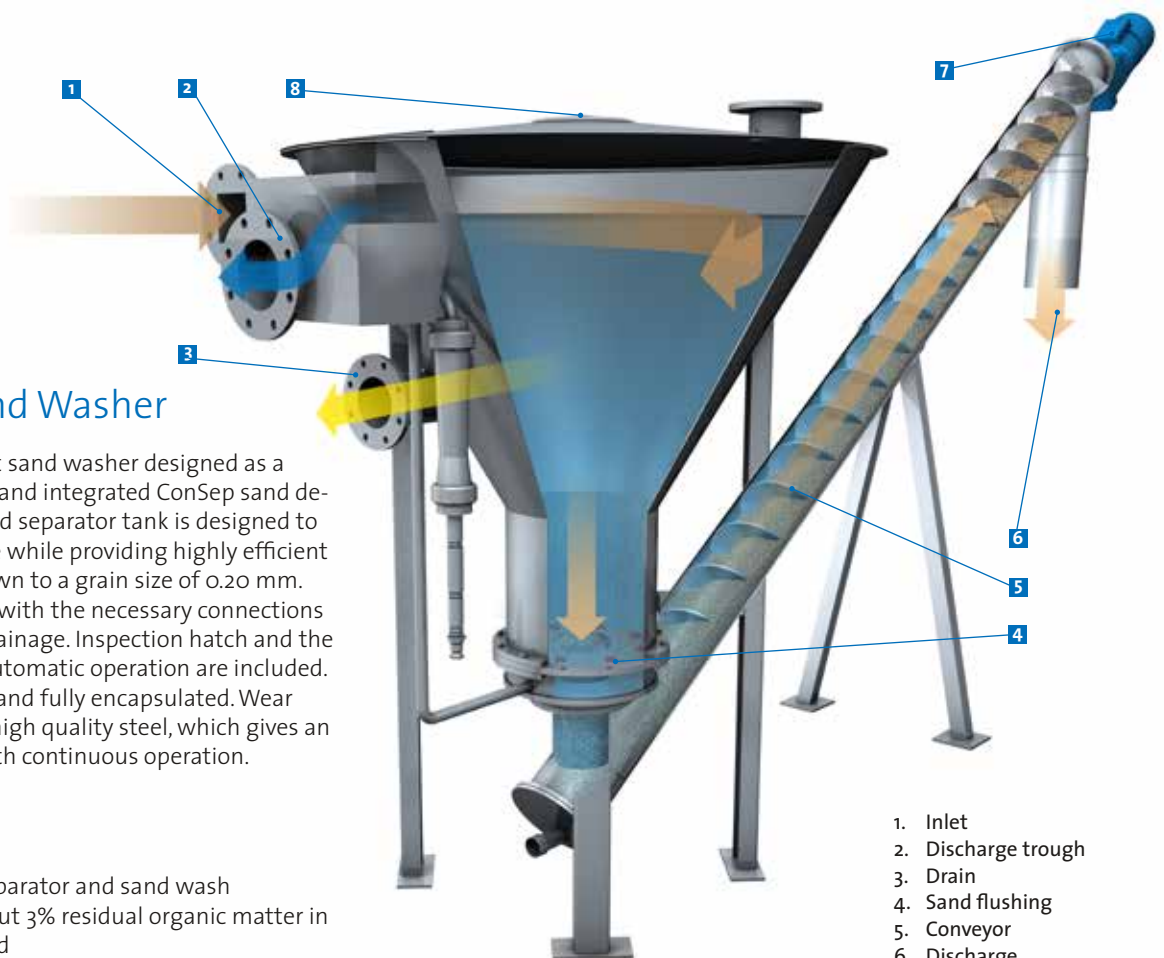
- ConWash Sand Washer** - optimal washing of sand.
- ConClar Travelling Scraper** - handles large amounts of sand.
- ConSep Classifier** - efficient dewatering of the sand.
- ConVortex Sand Trap** - high performance sand traps.

ConWash Sand Washer

ConWash is a compact sand washer designed as a cyclone with prewash and integrated ConSep sand dewatering unit. The sand separator tank is designed to be as small as possible while providing highly efficient separation of sand down to a grain size of 0.20 mm. ConWash is equipped with the necessary connections for wash water and drainage. Inspection hatch and the necessary valves for automatic operation are included. Stainless steel design and fully encapsulated. Wear surfaces are made of high quality steel, which gives an optimal service life with continuous operation.

Benefits of ConWash

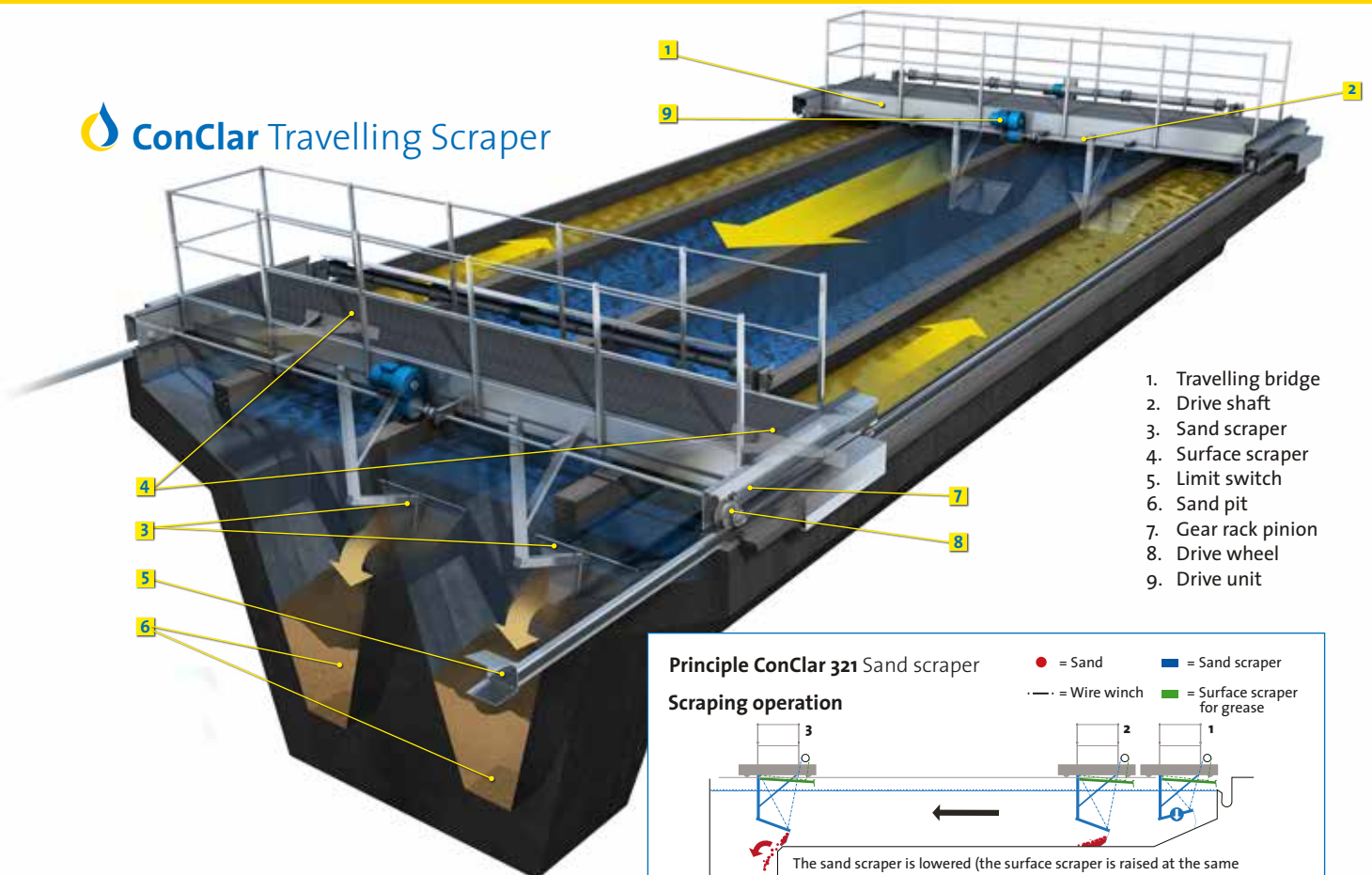
- Combined sand separator and sand wash
- Washing gives about 3% residual organic matter in the dewatered sand
- Available in four different sizes up to 25 l/sec
- Made of stainless steel
- Has a very small footprint
- Few moving parts



1. Inlet
2. Discharge trough
3. Drain
4. Sand flushing
5. Conveyor
6. Discharge
7. Drive unit
8. Inspection hatch



ConClar Travelling Scraper



1. Travelling bridge
2. Drive shaft
3. Sand scraper
4. Surface scraper
5. Limit switch
6. Sand pit
7. Gear rack pinion
8. Drive wheel
9. Drive unit

ConClar is a travelling scraper for rectangular grit basins supplied in two designs:

- **ConClar 321 Sand scraper** is designed to move the sand along the bottom in the direction of the water to short side of the basin.
- **Conclar 325 Sand pump** is designed for continuous conveying of sand during operations in both directions

ConClar is designed to operate in rectangular sand traps and collects both sand and grease during operations. The travelling bridge is designed to span over up to three sand trap basins.

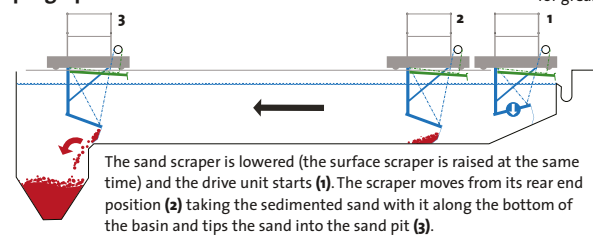
Sand/grease scraper is driven by time-controlled automatic control system.

Benefits of ConClar

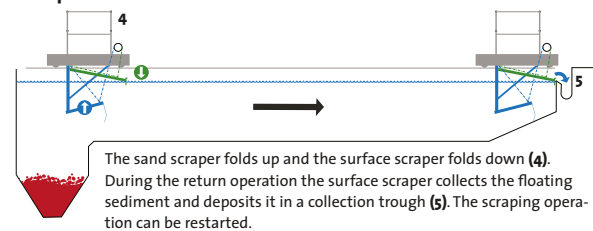
- Reliable design
- Flexible solution
- Can be supplied with rack and pinion operation to prevent the scraper from slipping
- Water submerged parts supplied in stainless steel

Principle ConClar 321 Sand scraper

Scraping operation

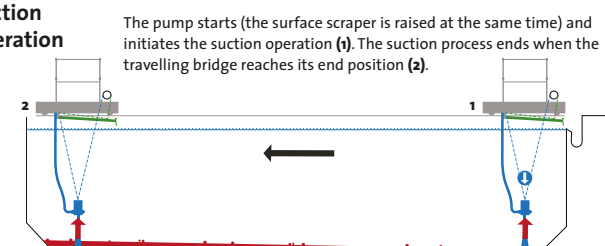


Return operation

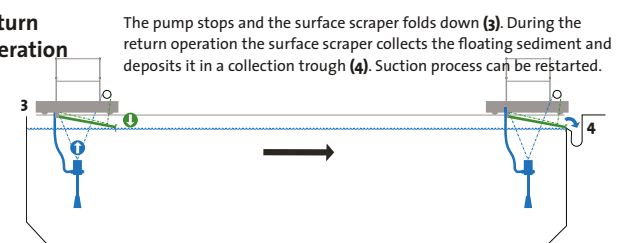


Principle ConClar 325 Sand pump

Suction operation



Return operation



ConSep Classifier

ConSep is an effective screw type classifier manufactured in five standard sizes and is used for automatic separation of sand/grit or other sedimented particles with a relatively high sedimentation rate.

ConSep consists of a specially designed stainless steel tank for sand separation that minimizes the risk of bridging. In the bottom is a reinforced shaftless screw conveyor, which transports and dewateres the sand optimally. Reject outlet is well sized and is also used as an overflow.

Benefits of ConSep

- Available in five different sizes with a maximum capacity of 180 m³/h
- High reliability and durability
- Minimum maintenance
- Few wear parts
- Good operating experience with many references
- Low operating costs

ConVortex Sand trap

ConVortex is a complete circular sand trap with a mammoth pump for the removal of sand and has equal or better performance than conventional sand traps. A service bridge ensures that maintenance can be performed optimally. The unit is equipped with a variable speed agitator and blower for efficient operations.

Benefits of ConVortex

- Has a very small footprint
- Available in seven different sizes and can also be installed in site-built tanks.
- Designed for continuous operation
- Low investment cost



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