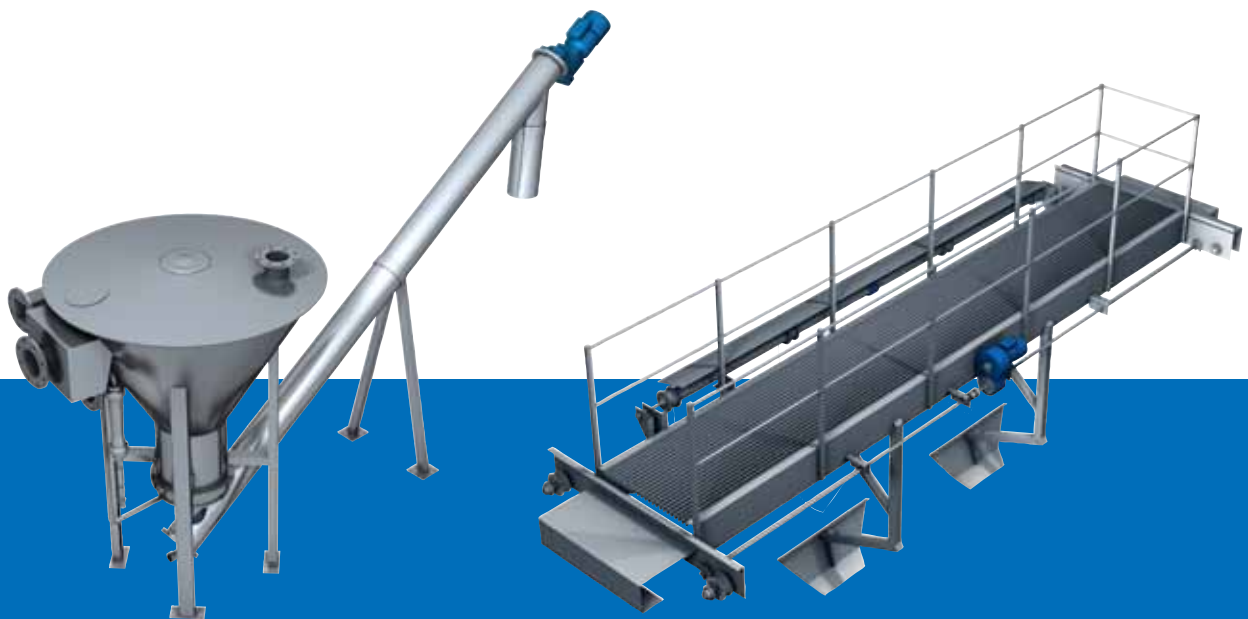




# Grit Separation

Equipment for Effective  
Separation of Grit



**ConWash** Sand Washer

**ConClar** Travelling Scraper

**ConSep** Classifier

**ConVortex** Sandtrap

# Grit Separation

## Equipment for effective separation of grit

Conpura has a wide range of equipment for efficient handling of grit in sewage treatment plants and in the industry. Our line of equipment includes a well-documented range of screw- and drum screens as well as fine and coarse screens. When you choose products from Conpura you can be assured that your facility will conform to all requirements currently and in the future.

### Conpuras program for grit handling include:

**ConWash Sand Washer** - maximum separation of sand on a minimal foot-print.

**ConClar Travelling Scraper** - separating large volumes of sand.

**ConSep Classifier** - efficient dewatering of the sand.

**ConVortex Sand Trap** - high performance sand traps.

### ConWash Sand Wash

ConWash is a compact sand washer carried out by a cyclone with a prewash and ConSep Grit Dewaterer. The sand separation tank is designed to be as small as possible but with high efficiency and with separation of sand down to a grain size of 0.20 mm. It is equipped with necessary connections for cleaning water and drainage. There is an inspection door and also the valves necessary for automatic operation. The design is made of stainless steel and completely encapsulated. Wear and tear parts are made of high quality steel which provides optimized life-time at continuous operation.

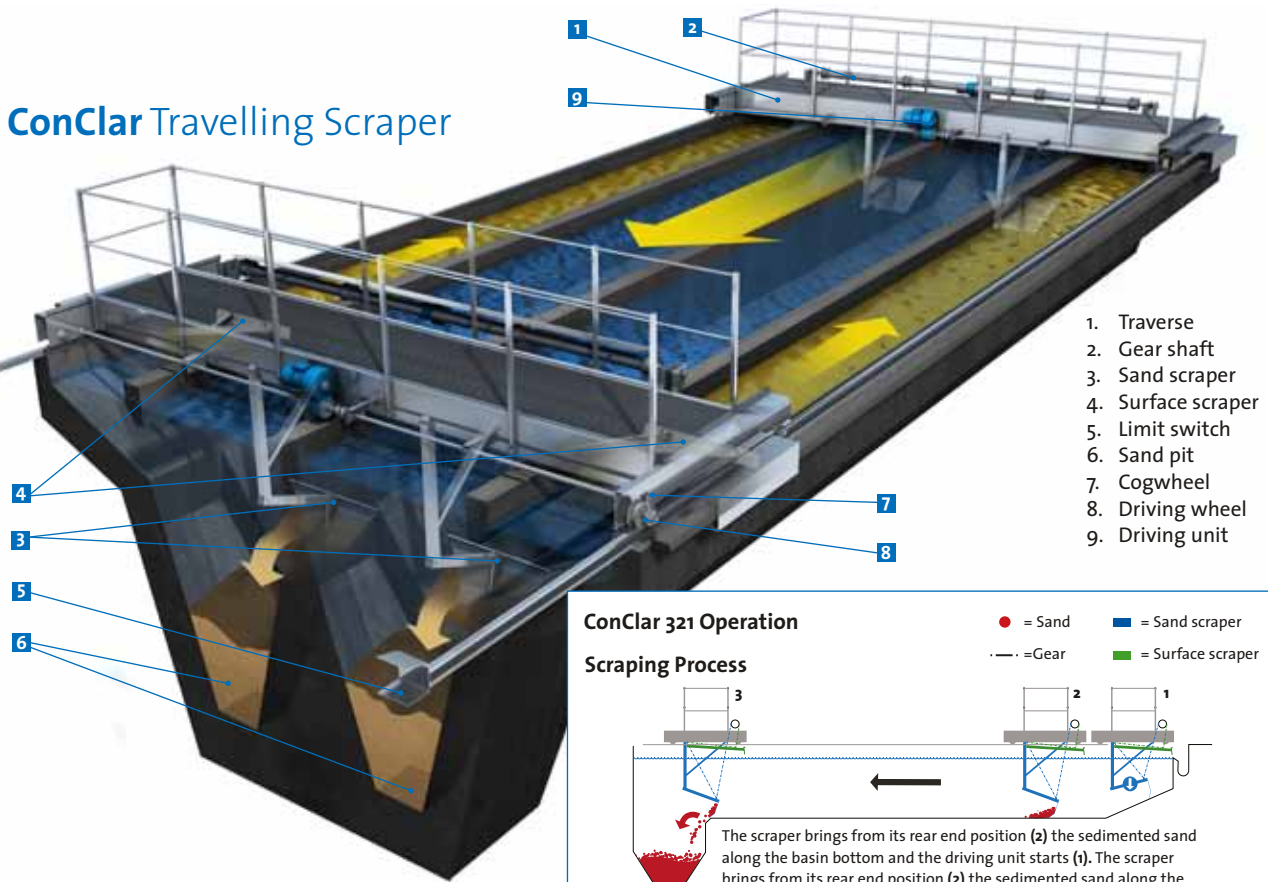
#### Benefits of ConWash

- Combined separator and wash of the sand
- Available in four different sizes up to 25 l /sec
- Made of stainless steel
- Requires small footprint
- Few moving parts



1. Inlet
2. Reject outlet
3. Drain
4. Sand sink
5. Conveyor
6. Sand outlet
7. Driving unit
8. Inspection door

## ConClar Travelling Scraper



1. Traverse
2. Gear shaft
3. Sand scraper
4. Surface scraper
5. Limit switch
6. Sand pit
7. Cogwheel
8. Driving wheel
9. Driving unit

ConClar 321/325 is a travelling bridge scraper for rectangular grit chambers which can be delivered in two performances:

- **ConClar 321** grit scraper is designed to sweep the sand along the bottom of the tank to the sand pit.
- **ConClar 325** grit pump is designed for continuous hoisting of sand with operation in both directions.

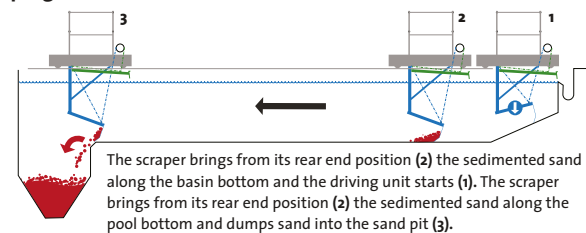
ConClar is designed for operation in a rectangular sand traps and during operation it collects both sand and grease. The scraper is adapted to embrace 1 to 3 grit chambers. The scraper is operated in automatic mode and is controlled by a timer. The scraper can also be operated in manual mode

### Benefits of ConClar:

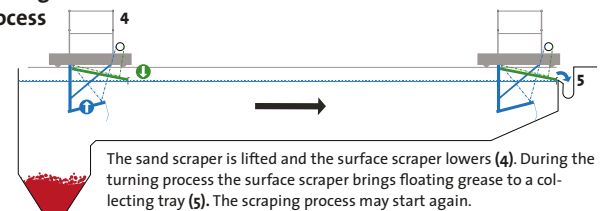
- Reliable design
- Flexible solution
- Available with cogwheel drive to avoid the scraper to slip
- Submerged parts available in stainless steel

### ConClar 321 Operation

#### Scraping Process



#### Turning Process



### ConClar 325 Operation

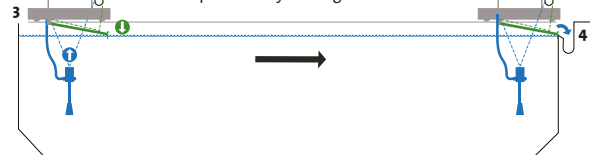
#### Suction Process

The Sand suction is folded down (while the surface scraper lifts up) and the suction process begin by the driving unit starts (1). The suction process ends when the travelling bridge reaches its end position (2).



#### Turning Process

The sand scraper is lifted and the surface scraper lowers (3). During the turning process the surface scraper brings floating sediments to a collecting tray (4). The suction process may start again.



ConSep is an effective classifier in type of a screw which is manufactured in five standard sizes and is used for automatic removal of grit or other sediment particles with relative high sedimentation velocity.

ConSep consists of a steel tank for the separation of sand to minimize the risk of bridging of sediment particles. In the bottom there is a reinforced shaftless screw conveyor which transports and drains the sand. The design of the reject outlet is ample and is also serving as emergency outlet.

**Benefits of ConSep:**

- Available in five different sizes with capacity up to 180 m<sup>3</sup>/h
- High reliability and durability
- Low maintenance with few wear parts
- Good references with excellent operating experience
- Low operating costs

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 **ConVortex Sand Trap**

ConVortex is a complete circular sand trap with a mammoth pump for removing the grit and has equal or better performance than a conventional sand trap. A service bridge ensures that maintenance can be performed optimally.

The unit is delivered with a variable speed-controlled mixer and a blower to ensure the operation of the mammoth pump.

**Benefits of ConVortex:**

- Has a small footprint
- Available in a variety of sizes, depending on customer needs
- Designed for continuous operation
- Low investment cost

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In our offices in Mönsterås and Lund you will find the tradition and knowledge. In cooperation with customers and suppliers, we concentrate on design and product development of mechanical products in the waste water area.

The project's nature and extent determines who is our closest partner. In the projects we work with contractors, end users or consultants with whom we have an open dialogue to provide mutual success.

We export more than 80% of what we produce. A strong global network of knowledgeable representatives with local ties is our bridge to the world. Together we try to fulfill our common vision and ideals.

Since 1972 when the company started, the concept has so far given us more than 5,000 references to clients in more than 40 countries worldwide.



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