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Water treatment solutions

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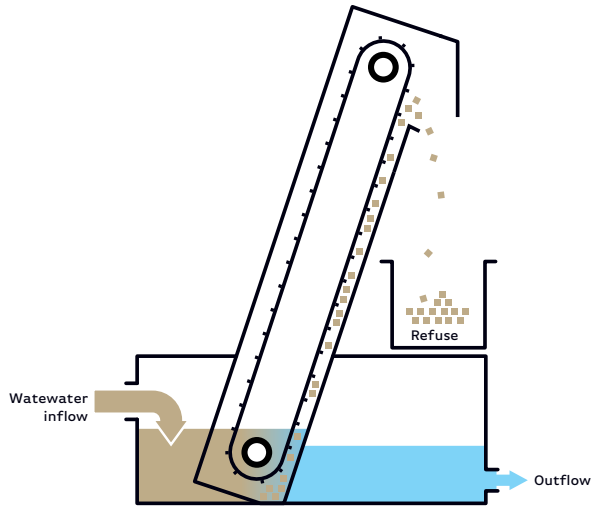
ELEVATING SCREEN SIEVE

SERTELMAX

The elevating screen sieve **SERTELMAX** is the screen sieve **SERTEL's** big brother. It is also used to remove suspended solids in wastewater from urban or industrial treatment plants .



Principle

The elevating screen sieve **SERTELMAX** is the screen sieve **SERTEL's big** brother. It is also used to remove suspended solids in wastewater from urban or industrial treatment plants. To illustrate the big difference in construction, we will simply say that at the same size in length and with:

- The screen sieve **SERTELMAX weighs 3 times more** than the screen sieve **SERTEL**;
- Its chain is **3 times heavier**;
- The driving motor power is **3 times greater**;
- The price of the chain is **10 times more expensive.**

The operating principle remains the same, meaning that the device is installed in a channel or a pit and without pre-pumping raw water. In its lower part, a 75° inclined flat grid stops the particles, larger than the opening slot , contained in the effluent.

Solid wastes are then raised continuously by scrapers towards a discharge chute. The scrapers consist of stainless steel combs, made of 8 mm thick metal sheet.

The elevating screen sieve **SERTELMAX** is a **very powerful and robust device**, capable of extracting large quantities of material. Combined with a waste screw compactor **SERCOMP** and a bagger, it considerably reduces volumes and therefore transportation costs.

The multiple dimensional versions available, in length (up to 12 m) and in width (up to 2 m), make it possible to choose the appropriate model for each application.

In addition, it is possible to deliver the screen sieve **SERTELMAX** in several sections to be assembled on site.

Design features

The elevating screen sieve **SERTELMAX** consists of the following elements:

- **Housing** made up of AISI 304 L (316 L as an option) metal sheet, 4 mm thick.
- **The removable grid** is made of stainless steel 50×12 mm section bars arranged on edge. In order to facilitate the maintenance and handling, the grid can be made in several parts. Bars – optional – can have a trapezoidal profile to enable an optimal hydrodynamic flow.

The length of the grid is 1 m minimum, and can be 1.5 , 2 m or more.

Its width is calculated following the water flow to be treated, the slot and the draught (water height in front of the grid).

- The **scraping system** includes:
  - An axis with two removable gear wheels, made of stainless steel, in the upper section.
  - Two lateral stainless steel chains of the handling type with stainless steel high capability rollers, between which supports are fixed carrying the rakes.
  - In the lower part and on each side of the frame, a stationary stainless steel cylinder, around which comes to roll the rollers of the chains.

The absence of a lower axis allows the effluent a totally open way towards the grid.

Options

Box
Continuous welding of the housing for better corrosion resistance.

Frame
Removable frame in several parts for high length.

Panel
Electric panel with level probes.

Compactor
Possibility of integrating screw compactors **SERCOMP** or **SERCOMP PLUS.**

Speed
Frequency converter coupled to an ultrasonic level controller to modulate the scraping speed.

Construction
AISI 316 L stainless steel construction on request.

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contact@serinol.com
+33 (0)4 68 76 52 52

65, avenue Ernest-Léonard
11150 BRAM FRANCE

Online product details
www.serinol.com