

ELEVATING SCREEN SIEVE

SERTEL

The elevating screen sieve **SERTEL** is used to remove suspended matter in wastewater from urban or industrial treatment stations.

Principle

The elevating screen sieve **SERTEL** is used to remove suspended matter in wastewater from urban or industrial treatment stations. It is a simple device, capable of extracting large quantities of material at a very low investment and operating cost. It is robust, with up to a 20-year life span – if ordinary maintenance operations are correctly carried out.

Combined with a waste screw compactor **SERCOMP** and a bagger, it considerably

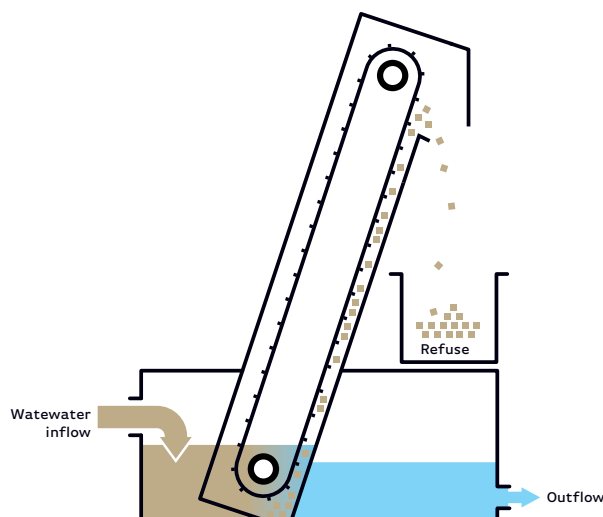
reduces volumes and therefore removal costs. In addition, in the latter configuration, operators are better protected against accidental contact with the residue.

The multiple dimensional versions available, in length (up to 10m) and in width (up to 2m), make it possible to choose the appropriate model for a specific application.

This equipment, installed in a channel or in a pit, operates over the water and does not need preliminary pumping. In its lower

part, a grid inclined at 75 ° – as standard, stops particles of dimensions greater than its air gap. These particles are continuously scraped towards an outlet chute. The scrapers are made of stainless steel wire brushes, polyurethane, or stainless steel combs.

The elevating screen sieve **SERTEL** is the most suitable device for the screening of wastewater with high solid content. The standard minimum mesh is 0.5 mm.



Design features

The elevating screen sieve **SERTEL** is made up of the following elements:

- A housing made of stainless steel AISI 304L, 3 mm thick sheet, assembled mainly by bolts;
- A removable filtering grid which consists of triangular section wires up to 6 mm slot maximum, this profile allowing an optimal hydrodynamic flow. For larger slots, it is made of 5 mm thick stainless steel bars, laser-cut and set on edge. Sometimes the grid is made from perforated sheet metal upon customer request.

The length of the grid is 1 meter as standard, but can be changed if necessary.

The width of the grid is calculated according to the flow rate, the mesh and the draft (height of water in front of the grid).

- The scraping system includes:
 - an axis and two stainless sprockets;
 - two stainless chains with Delrin plastic rollers, between which rakes are fixed carrying the combs or the brushes – depending on the case;

- in the lower part and on each side frame, a fixed cylinder made of polyethylene, around which the chain rollers roll.

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

MODELS

The length of the elevating screen **SERTEL** varies from 1.5 to 10 meters, by 500mm increments.

More than 1,700 screens SERTEL, ECOTEL or SERTELMAX have been sold all around the world.

Options

Container

Stainless steel container for floor installation with, inlet, outlet and overflow weir onto lateral channel equipped with a manual grid.

Compactor

Possible association with a waste screw compactor **ECOCOMP**, **SERCOMP** or **SERCOMP PLUS**, depending on the required dryness.

Resistive level probes

Electric panel, and capacitive or ultrasonic level probes.

Scraping speed

Frequency converter coupled with an ultrasonic level sensor that can modulate the scraping speed.

Filtre

Stone trap placed in front of the device, operated by a pulley / cable system.

Construction

AISI 316 L construction on request.



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