SCREENS

Screens remove a majority of solids from process and waste water and are helping considerably to reduce the waste water load. The screens are applicable in many industries such as:

- **Food industry:**
  cattle-, pig-, poultry slaughter houses, meat, fish, potato, vegetable processing and food-canning, dairies, cheese-making, delicatessen and ready-to-eat-dishes
- **Beverage industry:**
  fruit processing, press houses, breweries
- **Municipal sewage water**
- **Industrial waste water:**
  Paper and board industry, textile industry, animal destructor plants
- **Drinking and industrial water**

Self Cleaning Rake Screen

Slotwidth:
1 – 15 mm

Capacity:
up to 3600 m^3/h

Material:
stainless steel with plastic rake screen

Surface of the screen:
rake shaped elements

Cleaning:
At the deflection points a mechanical self cleaning effect is achieved by the meshing of the rake elements. Additional a rotating brush or a spraying device is installed in the upper deflection area.

Mode of operation:
The rake is installed directly into the waste water channel. Therefor pumping to the screen is not necessary and the risk of blocking of pumps installed downstream is minimized. The screenings are transported from depths to the top of the channel or to a higher level and can be discharged into a container or treated further (washed, compressed etc.).

Screen conveyor press

Slotwidth:
1 – 7 mm

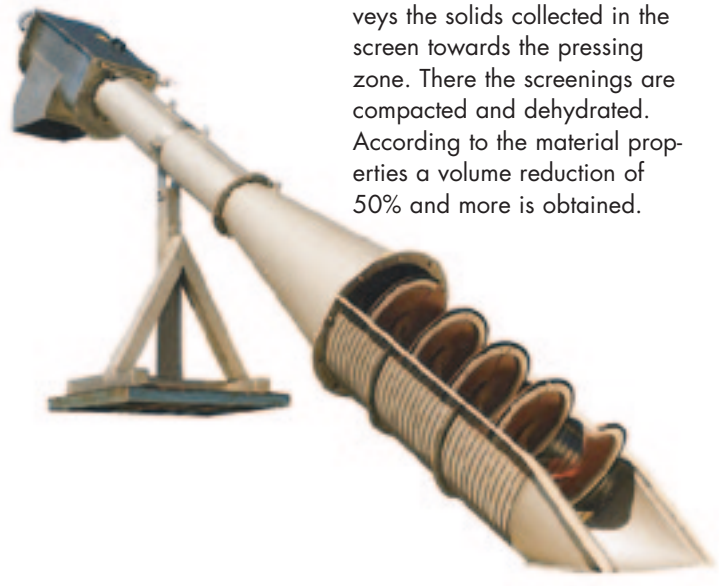
Capacity:
up to 1000 m^2/h

Material:
stainless steel with mild or stainless steel screw.

Surface of the screen:
drilled metal trough or wedge shaped bars, which are installed with spacings equal to the desired slot width for screening.

Cleaning:
the inside of the screen is constantly cleaned by brushes fixed on the outside diameter of the flighting. Additional a spraying device can be installed.

Mode of operation:
The screen conveyor is installed directly in the waste water channel. Therefor pumping to the screen is not necessary and the risk of blocking of pumps installed downstream is minimized. The shaftless spiral conveys the solids collected in the screen towards the pressing zone. There the screenings are compacted and dehydrated. According to the material properties a volume reduction of 50% and more is obtained.



Curved Screen

Slotwidth:
0,25 – 5 mm

Capacity:
up to 600 m^3/h

Material:
stainless steel

Surface of the screen:
The screen consists of wedge shaped bars, which are installed with spacings equal to the desired slotwidth for screening

Cleaning:
Due to the wedge shape, the slotwidth is the smallest at the water-supply side and as such clogging is minimised since particles can hardly get stuck between the wedges. Additionally the screen can be equipped with a vibrating unit, spray or brushing device.

Mode of operation:
The wastewater is fed on top of the curved screen and flows downward the spacings between the wedges. Solids larger than the spacings will be retained on the screening surface and will be collected down into whatever collection system is available.

Rotary Screen

Slotwidth:
2 – 5 mm

Capacity:
up to 1500 m^3/h

Material:
stainless steel

Surface of the screen:
a wedge shaped bar is wound in a spiral form to obtain the screening drum.

Cleaning:
A pipe wit jet nozzles are installed axially to the drum for cleaning.

Mode of operation:
Water enters the screen at the outside of the drum. Particles larger than the slot width are retained on the drum, scraped off and discharged. The water flows into the drum from the top and leaves the drum at the bottom. Any remaining particles after scraping, will be picked up by the water leaving the screen.

Our long-standing experience and the broad product range provide you with the optimum solution to your specific wastewater problem.

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