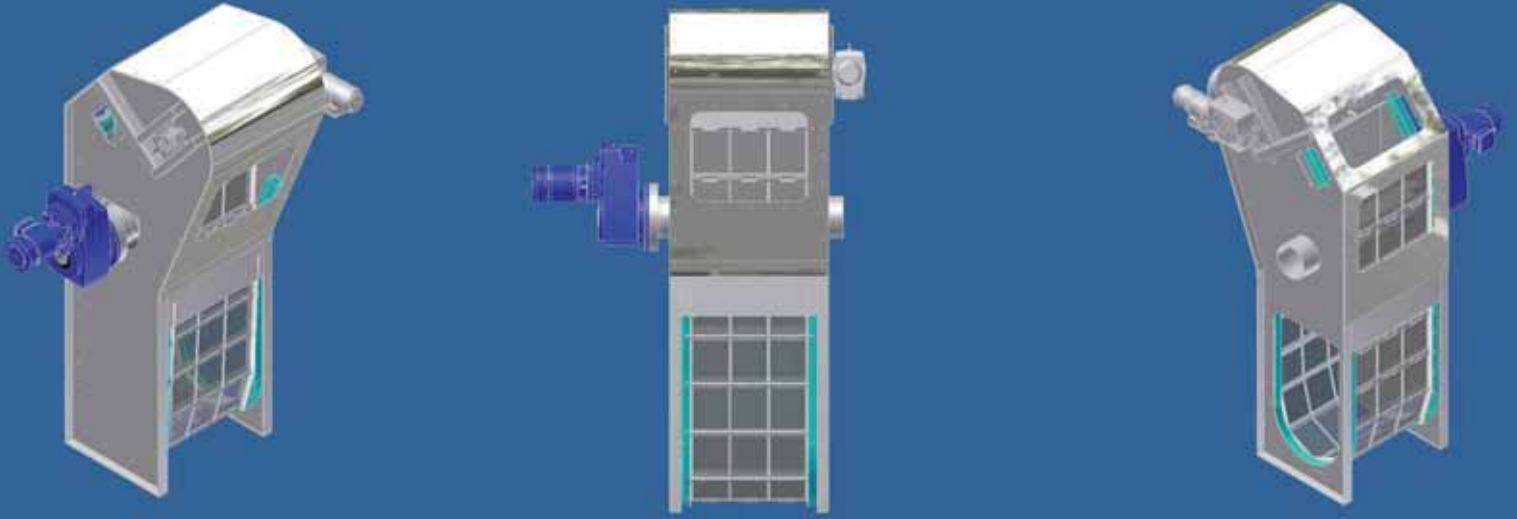


# sismat

**PERFORATED BAND SCREEN**





- Perforated Band Screens are designed for installation in wastewater inlets to remove the inorganic solids. The removal of inorganic solids is necessary to protect pumps and membrane bio-reactors and it extends the life-time of all other down stream machinery.
- The Perforated Band Screen with hole opening 1 to 10mm removes smaller pieces of waste, especially the cotton swabs, clothing and latex that bar screens can not remove.
- Perforated Band Screen operates in the principle of a vertical conveyor belt. In this case the belt has been replaced by perforated plates which are mounted between two endless transport chains. The chains are driven by two sprockets. The debris which is trapped on the screens is removed by water jets and discharged through a flushed chute into the screening press.

**Process:** The waste water enters the screen trough (an opening in the center of the screen frame) and passes through each side of the screening band when the band revolves.

**Cleaning Up:** The captured debris is removed from the panels on the deck level, where the screenings are deposited into a center trough by gravity and pressure water spray nozzles clean the panel.

**Screening Press:** The debris which are collected in the center trough are pressed via the screen press which is installed at the center trough.

#### Main Parts:

- Drive unit
- Drive shaft
- Bearings
- Perforated panels
- Rigid frame
- Wash line spray nozzles
- Center trough
- Screening press
- Enclosed head section with inspection window
- Side seals between the perforated plates and frame

#### Materials of Construction:

- Screen frame & structure: AISI 304, AISI 316, Duplex Stainless Steel
- Sprockets: AISI 304, AISI 316, Duplex Stainless Steel
- Drive Shaft: AISI 304, AISI 316
- Perforated panels: UHMW plates, AISI 304, AISI 316 or Duplex Stainless Steel

#### Design Advantages:

- The capture rate of the Perforated Band Screen is more than 90%
- The integrated compactor washes, dewateres and compacts the screenings
- The integrated compactor reduces the volume of the screenings up to 80%
- Easy installation of the screen
- Flow capability from min 40 m<sup>3</sup>/h to max 4.000 m<sup>3</sup>/h

#### Application Areas:

- Waste Water Treatment Plants
- Small Town Waste Water Treatment Plants
- Drinking Water Treatment Plants
- Desalination Plants

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