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TRAVELLING BAND SCREEN



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TRAVELLING BAND SCREEN

Travelling band screen is designed for installation in the inlet works of treatment plants, pumping stations and water inlet structures to capture solid materials in order to protect following processes and downstream equipments. This type of screen has ability to deal with large variations in water level and depths with high efficiency. The travelling band screen has an endless band of perforated screening panels carried on a vertical travelling path.

The panels are connected to the drive chains supported by two sprockets on the head shaft which is driven by an electric motor gear unit. The panels are cleaned by a washwater system with nozzles.

Travelling band screen mainly consists of following parts;

Screen frame

It is the main structure of screen and made of standard sectional or folded steel plate bent in U shape. The whole framework can be fabricated in stainless steel.

Screening panels

They are manufactured from perforated plates. Mesh sizes may vary between 0,5 mm- 3,0 mm

Stainless steel material alternatives are available.

Discharge chute

This part helps captured screenings to drop into a conveyor or a container. It is made of stainless steel.

Rake

Rakes are manufactured from stainless steel and lined up on to a pair of endless chain.

Washing System

Screening panels are automatically cleaned by internal washing system equipped with spraying nozzles.

Chain mechanism

It contains two pieces endless chain and two pieces sprocket which are located at upper section of the mechanism.

Drive unit

Drive system consists of a motor which has IP 55 class protection as standard and a gearbox to reduce motor output speed and supply suitable traveling speed for rake system. It is directly mounted to drive shaft.

Design data:

Screen channel width : 1000 - 2000 mm
 Screen channel depth : up to 5000 mm
 Discharge height : 800 mm - 2800 mm
 Screen opening : 0,5 - 3 mm
 Installation angle : 70 - 80 degree
 Travel speed : 10 m/min

Accessories:

Torque switch
 Washing nozzle system

Optional Accessories:

Ultrasonic differential level measurement
 Local control panel
 Cover
 Motorised cleaning brush

