



FRONT RAKED BAR SCREEN - FRS

Front Raked Bar Screens are multi-raked chain operated screens which are generally used as coarse and fine screens for medium and large sized water and wastewater treatment plants. Front Raked Bar Screen is mainly consisting of bar screens, frame, dead plate and discharge chute which is equipped with multi-rakes and a counter wiper.

High screenings discharge capacity and low head loss is achieved by the help of multi-rakes. Also since the rakes are directly connected to the chain i.e. no additional supporting structure the installation height above level is very low even in very deep channels.



MULTI-RAKE SOLUTION FOR CHANNEL SCREENS

Front Raked Screens are proper equipment for full automatic removal of solids from all kinds of water and wastewater. Steel bars spaced at certain distance are used to catch coarse or even fine debris. Mechanical rakes scrape the screening bars to carry the debris and discharge them through a chute into transport equipment or into a container. Front Raked Screens can be equipped with electrical control cabinet; with PLC or conventional systems. Additionally to prevent damages due to high screening loads electronically or mechanical torque limiting devices can be used. ASTİM designs and manufactures Front Raked Screens in a wide range of sizes for water and wastewater treatment plants and pumping stations.

OPERATION PRINCIPLE

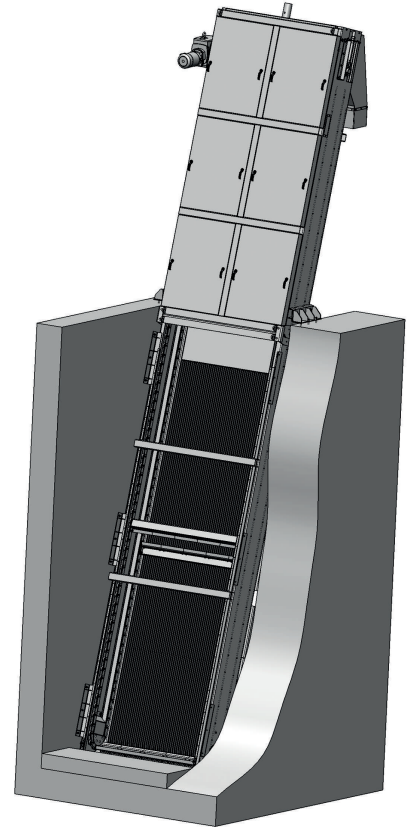
The bar screens are cleaned frequently with multi-rakes which are connected to an endless conveyor chain operating between two sprockets. The rakes are positioned in such a manner that while some are mowing up between the bars to clean the screenings, others are descending towards the bottom of the channel. While descending the rakes are far from the bars and after turning around the bottom sprocket they go up between the bars to clean the clogged screen. The collected screenings are either removed to a container or a transporter by the help of counter wiper for further processing.

FEATURES:

Bar spacing: $8 \div 60$ mm
Channel width: $600 \div 3000$ mm
Discharge height: up to 15 m
Installation Angle: $70^\circ \div 85^\circ$
Material: Carbon steel with surface protection or Stainless Steel



Front Raked Screen installed in channel



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