

# MULTI RAKE SCREEN MRS

## Bar Screen in Stainless Steel



### Main areas of use and features

- Slot width 5-50mm
- Discharge height from 1.5 to 15 m
- Channel width 500-3000 mm
- High screening discharge capacity due to multiple rakes
- Low hydraulic resistance, very low head loss
- Heavy-duty, extremely robust design
- Modular delivery possible
- Pivots out of channel as an option
- High service accessibility
- High finish guarantees a long life time

# MRS MULTI RAKE SCREEN

## Area of use

Meva multi-rake bar screen MRS is the optimal choice for installations with difficult operational conditions and/or high screening loads.

Reliable function and very low maintenance need of the screen is ensured by the robust design and the non-complicated control.

In addition, the screen has a high hydraulic capacity, which makes it possible to operate the screen also with a low head loss.

Meva Multi Rake Screen is a mechanically cleaned bar screen suitable for inlet works of treatment plants, pumping stations and inlet water structures. The screen captures solid materials which otherwise would be harmful to the downstream process.

Meva MRS can be designed to operate either as a coarse screen or as a fine screen, with a slot width down to 5mm. For hydraulically demanding installations the fine screen can be fitted with teardrop shaped bars, presenting an unrivaled low flow resistance.

As an option for difficult installations Meva MRS can be delivered in modules to allow for transportation and assembly of the screen where it otherwise would not be possible, later allowing for an easy final assembly on site.



## Function

Meva MRS is built with an open structure upstream, enabling all maintenance and repairs of the drive unit, dead plate or bar rack to be performed without lifting the screen and without access to the back of the screen. The bottom is fitted with long-life bearings, for minimum maintenance.

The discharge scraper is fitted with a PE-wear section, that is easily replaceable. An electronic motor protection monitors the motor and protects the screen. This allows for a more complex and detailed setting than a mechanical breaker. As an option the screen can be delivered with special supports, that allow the screen to be pivoted out of the channel for service and maintenance.

The entire screen is made from laser cut, pickled stainless steel. Several lifting lugs simplify the installation process. Once installed it is a fully encapsulated design, with a ventilation connection to eliminate possible odor problems.



# Automatic Control

Meva MRS works intermittently and the operation can be adjusted to the incoming flow. A level sensor is installed in the channel in front of the screen. The screen starts when a pre-set water level is reached and operates until the water level is below the pre-set value. The cycle is repeated when the level is reached again.

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Bottom step with low hydraulic profile



