

MULTI RAKE SCREEN MRS

Bar Screen in Stainless Steel



Main areas of use and features

- Slot width 5-100mm
- 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 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.

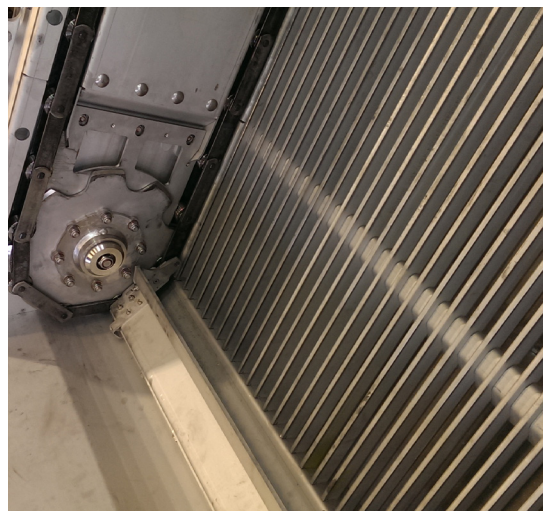
The discharge scraper is fitted with a PE-wear section, that is easily replaceable. An electronic motor protection monitors the motor and protects the screen. This allows for a more complex and detailed setting than a mechanical breaker. As an option the screen can be delivered with special supports,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



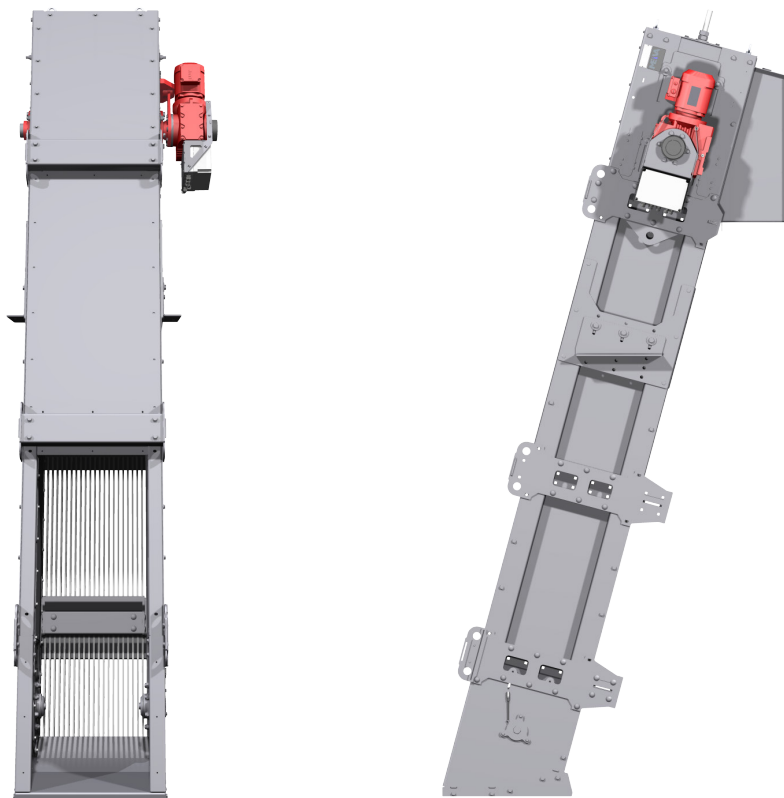
Bottom step with low hydraulic profile

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Technical Specification



Technical specification

Discharge height	1.5 to over 15m
Standard installation angle	75° or 80°
Screen channel width	400-3000*mm
Slot width	5-100mm
Rake speed	7-9m/min

*Wider installations possible with Twin units.

Options

Pivoting supports
Delivery in modules

Optional Accessories

Ultrasonic differential level sensor
Electrical control panel
Insulation and heating