MEVA
by Nordic Water

MULTI RAKE SCREEN MRS C-BAR

Bar Screen in Stainless Steel

Main areas of use and features

- Curved bars allow for efficient removal of stones and gravel
- Bottom step with low blind zone, allows for high hydraulic capacity
- High screening discharge capacity due to multiple rakes
- Low hydraulic resistance, very low head loss
- Modular delivery possible
- Manufacturing as well as installation without welding
- Automatic reverese to prevent blocking

NORDIC WATER

MRS C-BAR **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 with curved bars, MRS C-BAR, is a modified version of our well-proven MRS.
MRS C-BAR 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.

The bars are curved as a semi-circular profile in the bottom of the screen, compared to a standard MRS that has straight bars. Due to the design of curved bars, sediment on the bottom plate is removed by the rake and discharged. The low bottom step allows for a larger screenings area. Therefor the MRS C-BAR is suitable for high capacity installations and is not effected by stones and gravels.
Due to the smaller blinding at the bottom of the screen, the problems of sedimentation are minimized.

Meva MRS C-BAR can be designed to operate either as a coarse screen or as a fine screen, with a slot width down to 6 mm. 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 C-BAR 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.

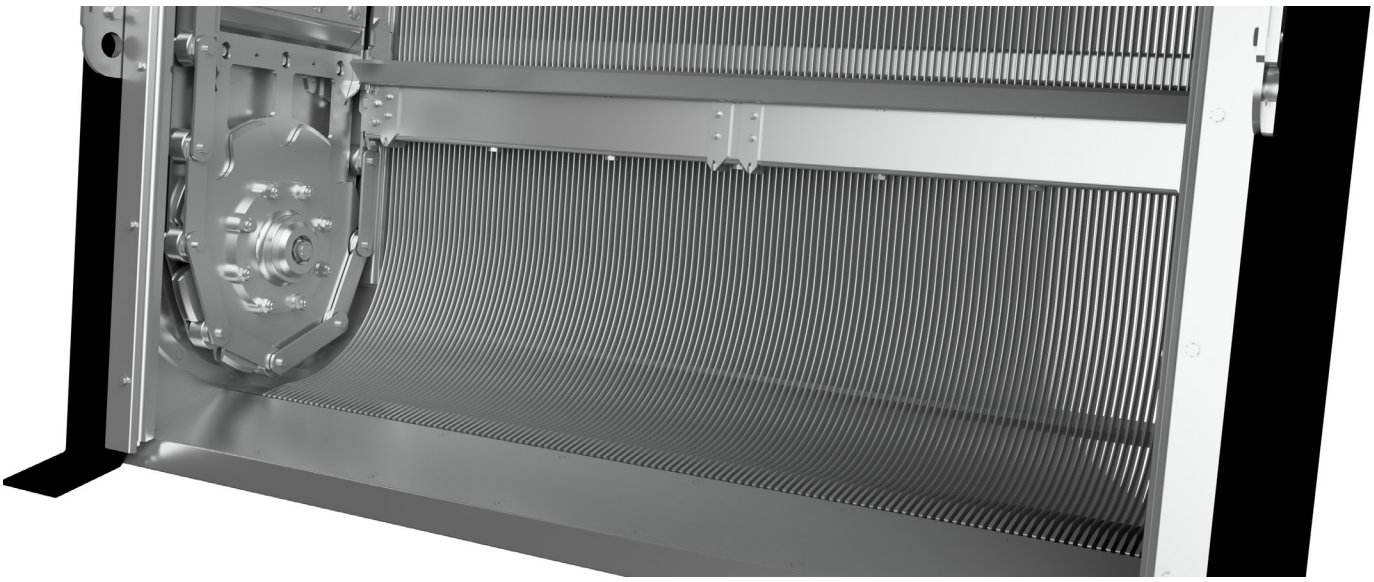
Function

Meva MRS C-BAR 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.
There is no use of brushes or spray water and rake and bars are individually replaceable.

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 screen is automatically reversed to prevent blocking.
Manufacturing as well as installation without welding.

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.



Curved bars and bottom step with low blind zone, allows for high hydraulic capacity

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MRS C-BAR:

- Curved bars allow for efficient removal of stones and gravel
- Bottom step with low blind zone, allows for high hydraulic capacity
- Slot width 6-50 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
- Manufacturing as well as installation without welding
- Automatic reverese to prevent blocking

Automatic control

Meva MRS C-BAR 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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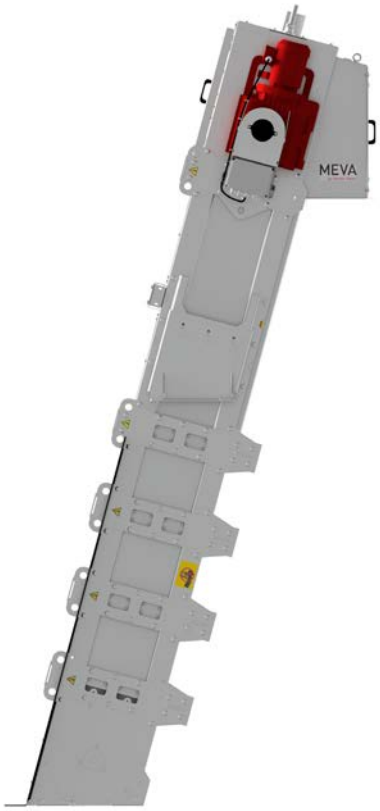
Technical Specification



Technical specification	
Discharge height	1.5 to > 15 m
Standard installation angle	75° (optional 80°)
Screen channel width	500-3000 mm
Slot width	6-50 mm
Rake speed	7-9 m/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

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