

Efficient removal of pollutants from wastewater

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# Making water go around.



# Main industries and applications

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The MevaScreen® Monster family is designed for the effective removal of solids from a water stream as a primary process for water treatment.

Screen solutions are part of the range of wastewater processing equipment designed to optimize the performance of water treatment plants and other applications with challenging processes. Ideal for sewage treatment plants and industrial water treatment, MevaScreen products set the standard for reliability and cost efficiency.

Primary screening is an essential process for water treatment plants, both municipal and industrial, for removing material that could otherwise damage downstream equipment.

Coarse screens are the first step in processing wastewater, intercepting and removing large debris that might damage equipment such as pumps or slow down fine screens downstream, making them less effective. Fine screens are essential for extracting smaller items that can pass through coarse screens, removing the majority of the inorganic solids for proper disposal.

MevaScreens offer a range of designs that can be tailored for specific applications to ensure the most effective solution is installed.



# MevaScreen® RSM Monster

## Optimized Performance, Progressive Step Screening and Solids Separation Solution

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Designed for channel installations up to 2,000 mm in width, the MevaScreen RSM Monster offers discharge heights up to 4.5 meters, with a slot width 1 - 6 mm.

The unique, patented design offers several advantages, especially at the lower levels below the water's surface. The MevaScreen RSM Monster has a motion that ensures a high rate of capture for debris and ensures a uniform slot width over the entire screening surface. The progressive step motion of the screen transports a small part of the screenings mat during each cycle, minimizing the 'rush' of water that is often seen with more traditional designs.

As debris collects on the bars, the build-up of materials helps to trap smaller particles, forming a mat that is gradually elevated from the water stream and into a collection chute. The design of this state-of-the-art screen also minimizes the risk from blockage by sand and grit.

The MevaScreen RSM Monster operates intermittently based on a preset upstream water level, which is monitored by a sensor above the inlet channel. Once the level drops to a predetermined point, the screen motion stops. The design offers the highest separation of degree of solids on the market.

## Features and benefits

- Higher screenings capture and removal rate than traditional bar screens
- Mechanically self-clean with no rotating brushes or spray bars
- Progressive motion ensures uniform slot width over entire screening surface, minimizing water in rush
- Patented pulse operation for fewer running hours, reduced energy consumption and less mechanical wear
- Covered lower bars minimize solids pass-through, eliminating risk of blockage by sand, stones, etc.
- Customizable to specific applications
- Energy efficient, low wear and ease of maintenance offer long product life
- Designed for channel installations with widths up to 6.5 feet

## Automatic Control

MevaScreen RSM Monster operates 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.



## Product and Performance Details

- Patented fine screen with slot width .5 - 6 mm
- Discharge height 0.7 m - 4.5 m
- Channel width 300 - 2000 mm
- Fully covering screenings mat
- High capacity
- Few moving parts
- Fully encapsulated
- The highest separation degree of solids on the market
- High finish guarantees a long life time

# MevaScreen® RS, DS Monster

## Self-cleaning fine screen for the separation of solid particles from water

Designed for channel installations up to 2,000 mm in width, the MevaScreen RS, DS Monster offers discharge heights up to 4.7 meters.

The design has proven itself for more than 30 years as reliable and efficient in some of the most challenging applications, such as storm water, pulp and paper, textiles, breweries and meat processing. The MevaScreen RS, DS Monster can be specified to suit each application; offering a throughput up to 15'000 m<sup>3</sup>/h, slot widths between 2 and 6 mm, this compact solution is ideal for both tanks and inlet channels.

Constructed using 304 or 316 stainless steel, the MevaScreen RS, DS Monster delivers long-term reliability and excellent energy efficiency. The design includes a self-cleaning screen area, which does not require rotating brushes or wash water, as well as low friction bar spacers that extend the life of the bars.

The MevaScreen RS, DS are self-cleaning fine screens for separating solids from water. Designed

to have a very low flow resistance, the screens offer the highest relative capacity of any screen on the market, making them ideal for channels with gravity flow. The RS, DS uses a chain drive mechanism. The DS operates with a unique, chain-less drive.

The design of the MevaScreen RS, DS Monster maintains a uniform slot width during operation. This is achieved by a robust bar fixing and intermediate, low friction spacers, every screen is fully enclosed and equipped with a ventilation connection.

The screen also has an automatic anti-blockage protection at the channel bottom, which makes it resistant to sand. For maintenance, the screen can be pivoted and is easy to clean down without removing any of the connected equipment.

The MevaScreen RS, DS Monster operate automatically and are controlled by level sensors placed in the channel. At a preset head loss value, the screen starts and operates step by step until the water level has dropped below a predetermined point.

## Features and benefits

- **Blockage-free operation**  
The MevaScreen RS, DS has automatic anti-blockage protection to prevent sand in the channel bottom from causing problems.
- **High energy efficiency**  
The large hydraulic capacity and optimized design result in fewer operating hours and less mechanical wear. Typical annual operating time is only 200 to 250 hours, reducing operating costs and improving sustainability.
- **Sustainable product design**  
The low friction bar spacers, which are used to extend the life of the screen bars, support an expected service life of 20+ years. The first RS screen was delivered 33 years ago and is still in operation.
- **Environmental**  
The self-cleaning screen area is designed to discharge waste into a compactor/conveyor without the need for rotating brushes or spray water as in other competing technologies. This simplifies operation and reduces energy consumption.

## Automatic Control

MevaScreen RS, DS Monster works intermittently, allowing the operation to 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.



## Product and Performance Details

- Fine screen with slot width 1 - 6 mm
- Discharge height 1m - 4.7 m
- Channel width 300 - 2000 mm
- Robust design with 3 mm bars
- High capacity and high separation degree of solids
- Pivots out of channel for easy maintenance
- Sand resistant anti-blockage protection
- Fully capsulated
- The widest and largest fine screen on the market
- High finish guarantees a long life-time



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mevascreen monster family MM NA EN 06.2025

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